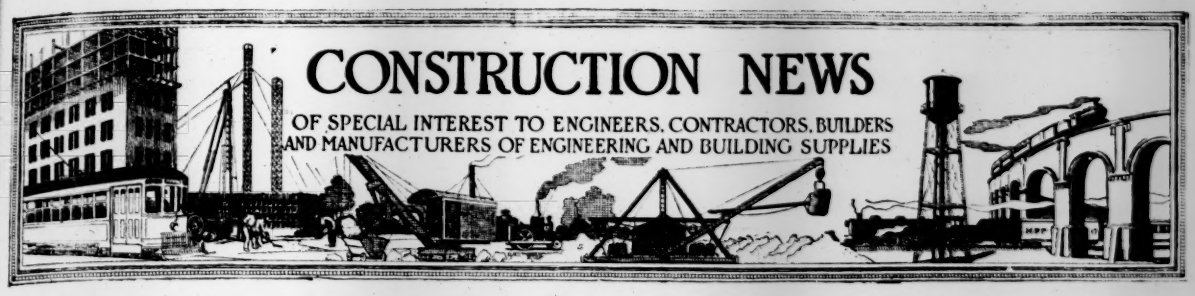
CONSTRUCTION NEWS
OF SPECIAL INTEREST TO ENGINEERS, CONTRACTORS, BUILDERS
AND MANUFACTURERS OF ENGINEERING AND BUILDING SUPPLIES

PROPOSALS

"For Proposals Advertised see the pages immediately following the Construction News Section."

WATERWORKS

Bids Close		See Eng. News-Record
July 28	Montevideo, Minn.	July 17
July 29	Farmington, Minn.	July 24
July 30	Ottawa, Ont.	July 24
July 30	Dodge City, Kan.	July 24
July 31	Warsaw, N. C.	July 17
July 31	Wilkes-Barre, Pa. Adv. July 24.	July 24
Aug. 1	**Litchfield, Minn.**	**July 3**
Aug. 1	**Akron, O. Adv. July 17.**	**July 17**
Aug. 1	South Erie, Pa.	July 24
Aug. 2	Wadsworth, O. Adv. July 24.	July 24
Aug. 5	**Zebulon, N. C.**	**July 17**
Aug. 5	Sharon Springs, Kan.	July 24
Aug. 20	Armour, S. D. Adv. July 24.	July 24

SEWERS

July 26	Port Huron, Mich.	July 24
July 28	New Bethlehem, Pa. Adv. July 17.	July 17
July 28	St. Paul, Minn.	July 24
July 28	Waseca, Minn.	July 24
July 29	Phœnix, Ariz.	July 17
July 29	Wamego, Kan.	July 17
July 29	Kings Park, N. Y.	July 17
July 30	Sibley, Ia. Adv. July 24.	July 24
July 30	Gregory, S. D.	July 24
July 31	Ellwood City, Pa. Adv. July 24.	July 24
July 31	Newton, Mass.	July 17
Aug. 1	Lake Preston, S. D.	July 24
Aug. 2	Lincoln, Neb.	July 17
Aug. 2	Iroquois, S. D.	July 24
Aug. 4	Idabel, Okla.	July 17
Aug. 4	Birmingham, Ala.	July 17
Aug. 5	Wakefield, Neb.	July 10
Aug. 5	Caledonia, Minn.	July 24
Aug. 15	South Charleston, W. Va. Adv. July 24.	July 24
Aug. 18	Hackensack, N. J. Adv. July 24.	July 24
Aug. 19	Kansas City, Mo. Adv. July 3 to 17.	July 3

BRIDGES

July 29	Jacksonville, Fla.	July 3
Aug. 1	Apollo, Pa.	July 24
Aug. 4	Little Rock, Ark.	July 3
Aug. 4	Santa Barbara, Cal.	July 24
Aug. 5	Duluth, Minn.	July 24
Aug. 7	Marion, Ark	July 17
Aug. 19	Statesboro, Ga.	July 3
Aug. 20	Swainsboro, Ga.	July 3

STREETS AND ROADS

July 28	Junction City, Kan.	July 10
July 28	Kalamazoo, Mich. Adv. July 17.	July 17
July 28	Cleveland, Tenn.	July 24
July 28	St. Paul, Minn.	July 24
July 28	Welland, Ont.	July 24
July 28	St. George, S. I., N. Y. Adv. July 24.	July 24
July 29	Columbus, O.	July 17
July 29	Pennsylvania Adv. July 10 and 17.	July 10
July 29	New York Adv. July 10 and 17.	July 10
July 29	Fayetteville, N. C. Adv. July 17.	July 17
July 29	Tecumseh, Neb.	July 17
July 29	Baltimore, Md.	July 24
July 29	Martins Ferry, O.	July 24
July 29	Rankin, Ill. Adv. July 24.	July 24
July 29	Baltimore, Md.	July 24
July 30	Edgefield, S. C.	July 24
July 30	California	June 19
July 30	New York, N. Y.	July 24
July 30	Callitzen, Pa. Adv. July 17.	July 17
July 31	Connecticut Adv. July 24.	
July 31	Wyoming	July 24
July 31	Poughkeepsie, N. Y.	July 24
Aug. 1	Iowa City, Ia. Adv. July 24.	July 24
Aug. 1	Napoleon, N. D.	July 24
Aug. 1	Zumbrota, Minn.	July 24
Aug. 1	St. Malachie D'Ormstown Que.	July 24
Aug. 1	Salt Lake City, Utah	July 24
Aug. 1	Moroni, Utah	July 24
Aug. 4	Birmingham, Ala.	July 17
Aug. 4	Hyrum, Utah	July 24
Aug. 4	Seattle, Wash.	July 24
Aug. 4	David City, Neb.	July 17
Aug. 4	Huntington, W. Va.	July 17
Aug. 4	Fremont, Neb.	July 17
Aug. 4	Seneca, Kan.	July 17
Aug. 4	Newton, N. J. Adv. July 24.	July 24
Aug. 4	Nashwauk, Minn.	
Aug. 4	Huntington, W. Va.	July 24
Aug. 5	Little Rock, Ark.	July 24
Aug. 5	Baltimore, Md.	July 24
Aug. 5	Little Falls, Minn.	
Aug. 5	Ohio	July 24
Aug. 5	Vermont Adv. July 24.	July 24
Aug. 5	Salt Lake City, Utah	July 24
Aug. 5	New York, N. Y. Adv. July 17.	July 17
Aug. 5	Lexington, N. C. Adv. July 17.	July 17
Aug. 5	Lewisburg, W. Va.	July 24
Aug. 6	Ortonville, Minn.	July 24
Aug. 6	Freehold, N. J.	July 24
Aug. 6	Mt. Holly, N. J. Adv. July 24.	July 24
Aug. 6	New Jersey Adv. July 24.	July 24
Aug. 6	Burlington, N. J.	July 24
Aug. 6	Delaware. Adv. July 17.	July 17
Aug. 6	Arkansas. Adv. July 17.	July 17
Aug. 7	Pittsburgh, Pa.	July 24
Aug. 7	Marion, Ark.	July 24
Aug. 8	Minnewaukan, S. C.	July 24
Aug. 12	Charleston, W. Va.	July 24
Aug. 12	Meadville, Pa. Adv. July 17.	July 17
Aug. 12	Washington, N. C.	July 17
Aug. 12	Albany, N. Y. Adv. July 17.	July 17
Aug. 12	Beaufort, S. C.	
Aug. 13	Holtville, Cal.	July 24
Aug. 15	Farmington, Utah	July 17
Aug. 16	St. Albans, W. Va. Adv. July 17.	July 17
Aug. 18	Walnut Ridge, Ark. Adv. July 17.	July 17
Aug. 21	De Queen, Ark.	July 24
Aug. 24	Washington, D. C.	July 24
Aug. 24	Denver, Colo.	July 10
Sept. 1	Salt Lake City, Utah	July 24

EXCAVATION AND DREDGING

July 28	Alamosa, Colo.	July 17
July 30	New Westminster, B. C.	July 17
July 30	Brooklyn, N. Y.	July 24
Aug. 1	Salt Lake City, Utah	July 24
Aug. 5	Shippigan, N. B.	July 24
Aug. 6	Kenton, O.	July 3

INDUSTRIAL WORKS

July 28	Long Island City, N. Y.	July 24
July 31	Toronto, Ont.	July 24
Aug. 1	Quebec	July 24
Aug. 1	Duluth, Minn.	July 24
Aug. 1	Duluth, Minn.	June 26
Aug. 1	Hastings, Minn.	May 15

BUILDINGS

July 28	Murray, Utah	July 10
July 28	Montreal, Que.	July 10
July 28	Shawenegan Falls, Que.	July 10
July 28	Woodstock, Ont.	July 10
July 28	Cap de la Madeleine, Que.	July 10
July 28	Pelham, N. Y.	July 24
July 29	Utica, N. Y. Adv. June 26 and July 3.	July 3
July 29	Philadelphia, Pa.	July 24
July 29	Aurora, Minn.	July 17
July 29	Omaha, Neb.	July 10
July 30	Austin, Minn.	June 26
July 30	New Rochelle, N. Y.	July 24
July 30	Two Rivers, Wis.	July 17
July 30	Hibbing, Minn.	July 24
July 31	Notre Dame de Grace, Que.	July 24
July 31	Mechanicsburg, O.	July 24
July 31	Lincoln, Neb.	July 10
July 31	New Philadelphia, O.	July 17
July 31	Grand Rapids, Mich. Adv. July 17.	July 17
Aug. 1	Vinita, Okla.	July 17
Aug. 1	Gilbert, Minn.	July 24
Aug. 1	Gastonia, N. C.	June 26
Aug. 1	Kenosha, Wis.	May 15
Aug. 1	Duluth, Minn.	July 10
Aug. 1	Virginia, Minn.	June 19
Aug. 1	Duluth, Minn.	July 3
Aug. 1	New Britain, Conn.	July 24
Aug. 4	Montreal, Que.	July 24
Aug. 5	Willmar, Minn.	July 3
Aug. 5	Toms River, N. J.	July 17
Aug. 6	St. Louis, Mo.	July 24
Aug. 9	Green, O.	July 24
Aug. 12	Indian Head, Sash.	July 24
Aug. 12	Morgantown, W. Va.	July 24
Aug. 15	Casper, Wyo.	July 10
Aug. 15	New Bedford, Mass.	July 10
Aug. 15	Omaha, Neb.	July 10
Aug. 15	Provo, Utah	July 24
Aug. 15	Lehi, Utah	July 24
Aug. 15	Nopeming, N. Y.	July 24
Aug. 18	Erie, Pa.	July 24
Aug. 24	St. Paul, Minn.	July 3
Sept. 1	Omaha, Neb.	July 17
Sept. 15	Pleasant Grove, Utah.	July 24

FEDERAL GOVERNMENT WORK

July 28	Stone—Cincinnati, O. Adv. July 3 to 17.	July 3
July 28	Bridges—Las Vegas, N. M.	July 24
July 28	Dredging and Filling—San Juan, P. R. Adv. July 3 to 17.	July 3
July 29	Crib—Chicago, Ill. Adv. July 10 and 17.	July 10
July 30	Heating Apparatus — St. Augustine, Fla.	July 10
July 30	Dredging—New York, N. Y. Adv. July 10 and 17.	July 10
July 30	Steel Sash—Spec. 3914—South Charleston, W. Va. Adv. July 17.	July 17

Bids Close		See Eng. News-Record
July 31	Boat House, Wharf and Boat Basin — Galveston, Tex.	July 10
July 31	Remodeling Elevator—Providence, R. I. Adv. July 10.	July 10
July 31	Storehouse — Wilmington, Del. Adv. July 3.	July 3
July 31	Rubble Mound Protection, etc.—Buffalo, N. Y. Adv. July 10 and 17.	July 10
July 31	Levee Work — Vicksburg, Miss. Adv. July 24.	July 24
July 31	Grading — Washington, D. C. Adv. July 24.	July 24
Aug. 1	Dredging, Wharf and Retaining Wall — Boston, Mass.	July 10
Aug. 1	Lock and Dam—Cincinnati, O. Adv. July 10 and 17.	July 10
Aug. 1	Material and Labor—San Francisco, Cal. Adv. July 17.	July 17
Aug. 2	Dredging and Rock Removal—Jacksonville, Fla. Adv. July 10 and 17.	July 10
Aug. 4	Sewers—Washington, D. C. Adv. July 10 and 17.	July 10
Aug. 4	Post Office—Salem, Va.	July 17
Aug. 4	Sidewalks — Washington, D. C. Adv. July 24.	July 24
Aug. 4	Boiler — New Brunswick, N. J.	July 24
Aug. 6	Paving—Washington, D. C. Adv. July 17.	July 17
Aug. 7	Dredging and Rock Removal —New York, N. Y. Adv. July 10 and 17.	July 10
Aug. 8	Pumps, etc.—Cairo, Ill. Adv. July 17.	July 17
Aug. 11	Dredging—Buffalo, N. Y. Adv. July 17.	July 17
Aug. 11	Pass and Weir Horses, Props, etc.—Wheeling, W. Va.	July 17
Aug. 12	Paving — Washington, D. C. Adv. July 24.	July 24
Aug. 15	Torpedo Storage and Compressor Building — Spec. 3991—Mare Island, Cal.	July 24
Aug. 18	Removing Boulders—Newport, R. I. Adv. July 24.	July 24
Aug. 19	Repairing Dike — Philaphia, Pa. Adv. July 17 and 24.	July 24
Aug. 20	Metal and Glass Work—Key West, Fla. Adv. July 17.	July 17
Aug. 26	Dredging—Honolulu, H. T. Adv. June 26.	June 26
Aug. 29	Post Office—Fayette, Mo.	July 24
Sept. 2	Miscellaneous Equipment—Washington, D. C. Adv. July 10 and 17.	July 10
Sept. 2	Post Office—Kansas City, Mo.	July 24

MISCELLANEOUS

July 26	Paving Materials — New York, N. Y.	July 17
July 28	Fence, etc. — New York, N. Y.	July 24
July 29	Boilers, etc., Central Islip, N. Y. Adv. July 24.	July 24
July 30	Dam, San Francisco, Cal. Adv. July 17.	July 17
July 30	Garbage Incinerator — Monessen, Pa.	July 24
July 30	Sluices—Victoria, B. C.	July 24
July 30	Levee — Lake Providence, La.	July 24
July 31	Wharf—Powell River, B. C.	July 10
July 31	Harbor Improvement—Atlantic City, N. J. Adv. July 10.	July 10
July 31	Laundry, Float and Approaches—Port Essington, B. C.	July 17
Aug. 1	Cast Iron and Special Castings—Akron, O. Adv. July 17.	July 17
Aug. 1	Pier — Swinburne Island, N. Y. Adv. July 24.	July 24
Aug. 1	Gasoline—New York, N. Y.	July 24
Aug. 2	Steam Road Roller — Sheboygan, Wis.	July 24
Aug. 4	Distribution System—Millville, Utah.	July 24
Aug. 5	Wharf—Grosse Isle, Que.	July 24
Aug. 5	Wharf—Okanagan Center, B. C.	July 17
Aug. 5	Bulkhead — Philadelphia, Pa. Adv. July 24.	July 24
Aug. 5	Wharf—Port Elgin, Ont.	July 24
Aug. 5	Lighting Plant, etc. — Sutherland, Sask.	July 24
Aug. 5	Breakwaters — Shippigan Gulley, N. B.	July 24
Aug. 6	Pumps, Boilers, etc., — Sibley, Ia. Adv. July 24.	July 24
Aug. 6	Boilers and Generators—St. John, Kan.	July 24
Aug. 7	Wrecking and Removing—Chicago, Ill. Adv. July 24.	July 24
Aug. 15	Telephone Lines—Edmonton, Alta.	July 24
Aug. 19	Tracks—Philadelphia, Pa. Adv. July 24.	July 24
Aug. 20	Safety Cars — Saskatoon, Sask. Adv. July 24.	July 24
Aug. 28	Silo—Savannah, Ga.	July 24
Sept. 23	Turbines, etc.—Saskatoon, Sask. Adv. July 24.	July 24

Where name of official is not given, inquiries should be addressed to City Clerk, County Clerk or corresponding official.

Waterworks

PROPOSED WORK

Mass., Pittsfield—City plans to issue $41,000 bonds to build extensions to water mains.

Conn., Groton—Town having plans prepared by Bilderbeck & Langdon, engrs., 253 State St., New London, extending water system, involving 10,000 ft. 12 in. c. i. pipe.

Pa., Pittsburgh—City voted $1,401,000 bonds to improve and extend water supply system. N. S. Sprague, ch. engr. dept. pub. wks. **Noted Jan. 30** under "Streets and Roads."

O., Sydney—City retained W. J. Sherman Co., engrs., Toledo, to investigate and report, with recommendations on improved water supply.

O., West Carrollton—City retained W. J. Sherman Co., engrs., Toledo, to prepare plans and estimates of cost for improving waterworks system.

Kan., Elkhart—See "Industrial Works."

N. D., New Rockford—City plans to install water softening plant. About $20,000.

Mont., Townsend—City receives bids in August for improving waterworks system. Bonds for $30,000 voted for project. C. Widener, city engr.

Mo., Boonville—City plans to improve waterworks system. Bonds for $40,000 voted for project. Burns & McDonnell, Interstate Bldg., Kansas City, engrs.

Okla., Ada—City plans election to vote on $500,000 bonds to improve and extend waterworks and storm sewers. Johnson & Benham, Firestone Bldg., Kansas City, Mo., engrs.

Okla., Tonkawa—City plans election to vote on $117,000 bonds to improve waterworks and extend lighting system. Johnson & Benham, Firestone Bldg., Kansas City, Mo., engrs.

Utah, Orem (Provo P. O.)—City voted $110,0000 bonds to install waterworks system.

Wash., Reardan—Town plans to build waterworks system. About $40,000. C. F. Uhden, engr.

Wash., Seattle—Bd. Pub. Wks. rejected bids received June 27, building watermains in East 80th St. Work will be readvertised. Noted July 17.

Ore., Yamhill—City soon lets contract building gravity water system. Work involves 7.5 mi. cement, wood or galvanized iron pipe, concrete diversion dam across Turner Creek and concrete reservoir 3 mi. north of here. R. W. Jones, McMinnville, engr. Noted June 5.

Cal., North Berkeley—East Bay Water Co., Oakland, plans to build filtration plant, including filter and pumping plants. Basins now being excavated. G. H. Wilhelm, Oakland, engr. Hazen, Whipple & Fuller, 30 East 42nd St., New York City, archts.

N. B., St. John—City having surveys made for increasing water supply from 4,000,000 to 12,000,000 gal. daily capacity and building watermains to Spruce Lake. About $300,000.

BIDS DESIRED

Pa., Wilkes-Barre—Until July 31, by Morris Run Coal Mining Co., Miners' Bank Bldg., building reservoir on Morris Run, Hamilton Twp. Work involves 6200 cu.yd. embankment and 300 cu.yd. mass and rein. con.; advertised in this issue.

N. C., Statesville—Until Aug. 5, by L. B. Bistol, mayor, building 1 clear water basin lined with concrete, 750,000 gal. capacity, and 2 filters, each to have 500,000 gal. daily capacity. R. L. Greenlee, city engr. Noted June 19.

O., Wadsworth—Until Aug. 2, by Village, building filtration plant. C. W. Courtney, 509 Leader-News Bldg., Cleveland, civil engr.; advertised in this issue.

Minn., Farmington—Until July 29, by E. H. Dosey, city recdr., laying 4800 ft. 6 in. water mains with valves, hydrants, etc. Druar & Smith, Globe Bldg., St. Paul, engrs.

Kan., Dodge City—Until July 30, by city, improving water works system, involving 500,000 gal. standpipe, 3000 ft. 4 in., 2000 ft. 6 in. and 1200 ft. 10 in. c.i. pipe, etc.

Kan., Sharon Springs—Until Aug. 5, by H. C. Wheeler, city clk., building 2 wells, 2 motor driven pumps; also brick power house, 1 or 2 oil engines with generators, 3000 ft. 4-6 in. c.i. pipe. Black & Veach, Interstate Bldg., Kansas City, Mo., engrs. Noted June 26.

S. D., Armour—Until Aug. 20, by city furnishing material and building one 80,000 gal. steel water tank and 110 ft. tower and furnishing material and laying 90 ft. 10 in., 1716 ft. 8 in., 60 ft. 6 in. and 40 ft. 4 in. c.i. water mains, 2550 ft. ¾ in. lead service pipe. J. E. Boot, mayor; advertised in this issue.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

N. J., Orange—See "Buildings."

★**Pa., Phila.**—Water Bur. let contract furnishing and delivering steel pump shaft at Torresdale Sta., to W. Cramp & Sons Ship & Engine Co., Richmond and Norris Sts., $1460; laying c.i. pipe lines, to M. and J. B. McHugh, 829 North Market St., $36,860.

★**Mont., Polson**—City let contract building water mains in various streets, to Nelson & Kordus, Eureka, $13,799. Noted Apr. 24.

★**Cal., Oakland**—East Bay Water Co. 9th St. and Bway., will build distribution reservoir on 39th Ave., involving 13,800 cu.yd. excav., 108,441 sq.ft. mass concrete, 102,131 sq.ft. roofing, etc. About $86,000. Work will be done by day labor. Noted May 29.

★**Ont., Timmins**—Town Council let contract extending and improving waterworks system, involving 8500 ft. 6-10 in. c. i. pipe; 20,000 ft. 6-18 in. vitr. pipe, hydrants, valves and boxes, to L. Masceoli, Timmins. About $116,000. Noted June 19.

★**Ont., York**—Town let contract building c. i. water mains on Eglington Ave., to Godson Contg. Co., Manning Chambers, Toronto. About $35,009.

Sewers

PROPOSED WORK

N. Y., Albany—Bd. Contr. & Supply received no bids July 14 building monolithic concrete sewer (part rein.-con.) in Maiden Lane. F. R. Lanagan, city engr. Noted July 17.

N. Y., Utica—J. Kemper, city engr., soon receives bids building sewer in North Genesee St., (double line) from Barge Canal to Riverside Dr., Trenton Rd., from Riverside Dr. to Real's Creek, Walker Rd. (double line) 432 ft. northerly from Herkimer Rd., Herkimer Rd. from North Genesee St., 730 ft. easterly, and Auert Ave. from North Genesee St., 317 ft. easterly, all in 16th Ward. Cost between $60,000 and $70,000. Noted Mar. 27.

N. J., Bellville—City rejected bid received June 10, building 23,415 ft. sewer in Mill, Quarry, Terrace Sts., et al. Work will probably be readvertised. Noted June 26.

Pa., Forty Fort (Kingston P. O.)—H. C. Allen, boro. secy., soon lets contract building sewerage system. Work involves 500 cu.yd. wet excav. (addition price over and above dry excav.), 60,029 lin.ft. 8-24 in. vitr. pipe in place, 185 manholes 6 and 10 ft. deep, 1504 branches 8-24 in. pipe, 200 lin.ft. gravel or broken stone foundation, 75 cu.yd. concrete masonry, 50,000 ft. B.M. of sheeting and timber, 90 sq.yd. brick pavement on concrete base, 200 sq.ft. concrete side and cross walks, etc.

Pa., Lancaster—City retained Gannett, Seelye & Fleming, engrs., 204 Locust St., Harrisburg, to prepare designs and supervise construction of sewage disposal plant.

Pa., Pittsburgh—City voted $1,341,000 bonds to improve sewerage systems. N. S. Sprague, ch. engr. dept. pub. wks. Noted Jan. 30 under "Streets and Roads."

W. Va., Warwood—See "Streets and Roads."

N. C., Mt. Airy—City plans to build sewerage system. About $75,000. J. B. McCrary Co., 3rd Natl. Bank Bldg., Atlanta, Ga., engrs.

Ky., Louisville—City plans election in fall to vote on $2,000,000 bonds to build sewers. R. Burk, asst. city engr.

O., Cincinnati—City plans to build Duck Creek interceptor sewer, cost $400,000; West Fork sewer, $150,000; Muddy Creek sewer, $65,000; Mill Creek trunk sewer, $400,000. Election Aug. 12 to vote on bonds for project.

Mich., Detroit—City soon lets contract building 5200 ft. brick, vitr. segmental block, rein.-con. or plain concrete sewer in Mack Ave., from Hamilton Ave. to Connor's Creek. C. W. Hubbell, city engr.

Mich., Port Huron—City had plans and estimate prepared for building, backfilling and finishing complete vitr. crock lateral sewers in alley between Minnie and Bancroft Sts., also alley between Bancroft and Cypress Sts. and 12th and 16th Sts., total length 3500 ft. About $14,000. E. R. Whitmore, city engr.

Ill., Danville—City plans to install sanitary sewerage system in ½ sq.mi. territory, using Imhoff tank disposal. About $52,000.

Minn., Duluth—See "Streets and Roads."

Kan., Russell—City having plans prepared building complete sewerage system and disposal plant. Black & Veach, Interstate Bldg., Kansas City, Mo., engrs.

Mo., Boonville—City plans to improve sewerage system. Bonds for $11,000 voted for project. Burns & McDonnell, Interstate Bldg., Kansas City, engrs.

Mo., Clayton—L. C. Diatzko, special sewer engr., Empire Bldg., Webster Groves, receives bids about Aug. 12, building sewers in Joint Sanitary Sewer Dist. No. 1, St. Louis Co. Former bids rejected. Noted July 3.

Utah, Salt Lake City—City Comrs. receive bids about Sept. 1 laying 5500 ft. 8 in. pipe in various streets in Gilmer Park, involving 5500 lin.ft. 6-15 in. earth trenching. About $25,000. S. Q. Cannon, city engr.

Ore., Portland—City Council adopted resolution to build vitr. or cement sewers in 42nd St., from 45th Ave. to Rhine St. About $10,607. O. Laurgaard, city engr.

Cal., Eldridge—State having plans prepared by State Eng. Dept., Sacramento, rebuilding sewage disposal plant at Sonoma State Hospital, here, also Imhoff tank and sprinkling filter. About $20,000.

Cal., Holtville—City rejected bids building 7000 ft. 12 in. vitr. pipe outfall sewer, involving 12 brick manholes. Plans will be revised and work readvertised. H. J. Burk, Holtville, engr. Noted June 5.

Cal., Oakland—City received no bids July 10, building sewers and drainage structures in 10th, Cedar, Goss and Bay Sts. and right of way adjacent to 7th St. Work involves 5568 ft. concrete, 250 ft. rein.-con. and 2398 ft. vitr. sewer pipe.

Cal., Waterman—State having plans prepared by State Eng. Dept., Sacramento, for sewage disposal plant at Preston School of Industry, including Imhoff tank and sprinkling filter. About $14,000.

Cal., Yountville—State having plans prepared by State Eng. Dept., Sacramento, for sewage disposal plant at Veterans Home, here, including Imhoff tank and sprinkling filter. About $10,000.

Ont., Belleville—Town soon lets contract laying 12,000 ft. vitr. tile sanitary sewers in Cedar, Yeomans, Isabella and Boswell Sts. About $35,000. Noted May 29.

Ont., Ottawa—City Council passed by-law authorizing expenditure of $6843 for sewer on Booth St. and $4558 for sewer on Echo St. H. H. Lett, city clk.

Ont., Ottawa—A. F. McCallum, comr. works, authorized expenditure of $38,000 to build drain across lands in Neufreau Twp. to outlet on Ottawa River.

BIDS DESIRED

N. J., Hackensack—Until Aug. 18, by Hackensack Impvt. Comn., building disposal works flotation basins, power house, power transmission lines, air lines, force mains, ejectors, ejector stations, etc., also for 101,450 lin.ft. pipe, together with manholes, catch basins, etc. F. J. Thompson, clk.; advertised in this issue.

Pa., Ellwood City—Until July 31, by C. C. Hall, boro. secy., building all or sections of sanitary sewer in 4th ward. J. J. Renner, boro. engr.; advertised in this issue.

Pa., South Erie (Erie P. O.)—Until Aug. 1, by City Council, building 5 sanitary tile sewerage systems. About $105,000.

W. Va., South Charleston—Until Aug. 15, by town clerk, building 50,000 ft. 8-36 in. or 42 in. sewers; advertised in this issue.

Mich., Port Huron—Until July 26, by city, trenching, laying and backfilling 1900 ft. sewer in Jenkinson St. from 7th to 10th Sts.; in 15th St. north of Baerd St. with lateral branches in alleys Nos. 2, 3 and 4 for Nern s Plat and Nos. 8, 9 and 10 of Petit Plat; in Garfield St. from 10th to 12th Aves.; lateral sewers west of 13th St. between Wall and Court Sts. in alleys Nos. 179, 206 and 223, lateral sewers from Howard to Pine Sts. in alleys Nos. 181, 204 and 225, laterals west of 13th St. between Court and Union Sts. in alleys Nos. 187, 207 and 222, between Pine and Wall Sts. in alleys Nos. 180, 205 and 224, between Union and Chestnut Sts. in alleys Nos. 177, 208 and 221 and between Chestnut and White Sts. in alleys Nos. 176, 209 and 220, all of White Plat. E. R. Whitmore, city engr.

Ia., Sibley—Until July 30, by town, building 16,220 ft. storm sewer. R. D. Stewart, city clk.; advertised in this issue.

Minn., Caledonia—Until Aug. 5, by R. V. Ryan, pres. Village Council, laying 2500 ft. 8-10 in. sewer in Dist. No. 3, 6-26 in. deep. About $12,000.

Minn., Little Falls—A. Johnson, city clk., receiving bids installing 7300 ft. sewers. About $28,000. C. L. Pillsbury Co., 813 Metropolitan Life Bldg., Minneapolis, engrs.

Minn., St. Paul—See "Streets and Roads."

Minn., St. Paul—Until July 28, by H. W. Austin, city purch. agt., City Hall, building storm water sewers in Como Ave., W and Ross St. O. Claussen, city engr. Noted July 3.

Minn., Waseca—Until July 28, by J. Madigan, city clk., laying 14,894 ft. tiled drain. About $11,000.

S. D., Gregory—Until July 30, by city, building 6½ mi. sanitary sewers. Dakota Eng. Co., Mitchell, engrs.

S. D., Iroquois—Until Aug. 2, by city, building 2½ mi. sewers and 2½ mi. water mains. Dakota Eng. Co., Mitchell, engrs.

S. D., Lake Preston—Until Aug. 1, by city, building 4 mi. sanitary sewers. Dakota Eng. Co., Mitchell, engrs.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

N. Y., New York—H. Bruckner, pres. Bronx Boro., received lowest 3 bids building storm water drain and appurtenances in East 233rd St., from J. O'Leary, $98,777; C. W. MacDonald, $120,000; P. J. Kearns, 2306 Creston Ave., $126,600.

N. J., Orange—See "Buildings."

★Pa., Phila.—Bureau of Surveys let contract building sewer in Chew St., to P. Ellis, Phila., $10,000.

★Ga., Gainesville—City let contract building sewer in Church St., to J. B. McCrary Co., 3rd Natl. Bank Bldg., Atlanta. About $27,000.

★Mich., Detroit—City let contract building lateral sewers, to C. Melevin, Penobscot Bldg., No. 3131, $1895; Walker & Teetaert Co., 442 St. Clair St., Nos. 3140, $26,660, 3164, $21,425, 3068, $29,566, Charlevoix Ave. Sewer Arm, $11,880; Lennane & McIlvenna, Book Bldg., Nos. 3153, $19,000, 3156, $8950; Western Constr. Co., 1208 Ford Bldg., Nos. 3160, $7429, 3161, $9217, 3167, $12,465, 3168, $8949, 3169, $8216; O'Rourke Eng. & Constr. Co., 17 Battery Pl., New York City, Joy Rd. Pub. Sewer, concrete, $988,218; Gawne Contg. Co., Cleveland, Linwood Ave. Pub. Sewer, Sect. 3, $135,506, Lynch Rd. Pub. Sewer, Sect. 5, $146,388; J. Winterbottom, 3274 West 25th St., Cleveland, Lynch Rd. Pub. Sewer, Sect. 6, concrete, $112,378. Noted July 3 and 17.

★Kan., Mary[illegible]—City let contract laying 60,000 lin.ft. 12-60 in. storm sewers, 12 manholes and 24 catch basins, to W. D. Boyle Constr. Co., Ry. Exch. Bldg., Kansas City, Mo. About $55,000.

★Okla., Lindsay—City let contract building sanitary sewers and sewage disposal plant, to Municipal Excavating Co., 200 East Main St., Oklahoma. About $52,000. Noted Apr. 10.

★Cal., Eureka—See "Streets and Roads."

Ont., Dundas—Town received bids building sewerage system, sewage disposal plant, etc., from Curran & Clement, Dundas, $152,031, Canadian Eng. & Constr. Co., Toronto, $216,583, Connolly-Agnew Co., Toronto, $228,222. Noted June 12.

★Ont., St. Catherines—City let contract building sewerage system in Facer St. Dist., involving 14,000 ft. 8 in. vitr. pipe, to McLaughlin Bros., Ottawa, $31,940; in Western Hill and Eastern Dists., 19,000 ft. 10 in. tile, to Mitchell & Mahan, London, $48,535. Noted June 26.

Bridges

PROPOSED WORK

Conn., Warehouse Point—Comrs. Hartford Co. (Hartford) appropriated $350,000 to build bridge over Connecticut River between here and Windsor Locks. Engineer not selected.

N. Y., Leroy—City election soon to vote on proposition to build bridge over Oatka River connecting Mill and Church Sts. About $28,000 for concrete arch bridge and $16,000 for steel girder. F. W. Leonard, Buffalo, engr. Noted May 22.

Pa., Pittsburgh—City voted $750,000 bonds to improve and change location of various bridges. N. S. Sprague, ch. engr. dept. pub. wks. Noted Jan. 30 under "Streets & Roads."

W. Va., Welch—Comrs. McDowell Co. plan to build concrete bridge over Negro Branch Creek. About $28,000. W. J. McClaren, Welch, engr.

N. C., Winston-Salem—City soon lets contract building 3 concrete bridges. J. Firth, supt. of pub. wks.

O., Cincinnati—See "Streets and Roads."

Ill., Danville—City plans to build 1140 ft. rein.-con. bridge on Gilbert St., 70 ft. high on 1½ per cent grade, to replace old steel bridge.

Bridges (continued)

Mont., Noxon—State Highway Comn., Helena, plans to build steel bridge over Clark's Fork of Columbia River, here. About $65,000. P. D. Pratt, state highway engr.

Mont., Park City—State Highway Comn., Helena, plans to build steel bridge over Yellowstone River near here. About $45,000. Federal Government asked to appropriate toward cost. P. D. Pratt, state highway engr.

Mont., Seips—State Highway Dept., Helena, plans to build bridge with steel span and approaches across Poplar River, near here. About $14,000. Federal Government asked to appropriate toward cost. P. D. Pratt, state highway engr.

Mo., Versailles—Morgan Co. election Aug. 26 to vote on $50,000 bonds to build bridges.

N. M., Santa Fe—Comrs. Santa Fe Co. plan to build 60 ft. concrete bridge over Arroyo Mesearros, 20 ft. wide. A. Lucero, clk.

Cal., Pasadena—City having plans prepared for rein.-con. bridge over Arroyo Seco. About $60,000. E. P. Dewey, asst. city engr.

Cal., Red Bluff—Bd. Supervs. Tehama Co. voted $521,000 bonds to build bridges. Noted June 26.

Cal., Willow—Bd. Supervs. Glenn Co. having plans prepared by Weeks & Day, engrs., Phelan Bldg., San Francisco, for concrete arch bridge to be known as Winslow Bridge. About $40,000.

Ont., Pickering—W. A. McLean, c/o Dept. Highways, Parliament Bldg., Toronto, soon lets contract building 655 ft. steel highway bridge over Rouge River, on Provincial Highway, 20 ft. wide, deck trusses up to 160 ft. long, supported on wood piling in clay soil. About $150,000. G. Hogarth, Parliament Bldg., Toronto, engr.

BIDS DESIRED

Pa., Apollo—Until Aug. 1, by Comrs. Armstrong Co., at office of J. S. Sell, controller Westmoreland Co., Greensburg, furnishing labor and material for wood block flooring; also painting and cleaning old steel floor system of joint county bridge over Kiskiminetas River here.

Ala., Birmingham—Until Aug. 15, by Bd. Revenue, Jefferson Co., building two 100 ft. rein.-con. arch bridges, one across Five Mile Creek at Lewisburg and other across Rock Creek on Taylor's Ferry Rd., about $10,000; also removing present steel bridge over Five Mile Creek and erecting same on Brookside cut off road. About $4000. S. R. Batson, co. engr.

Minn., Duluth—Until Aug. 5, by R. W. Acton, engr. St. Louis Co., building 36 rein.-con. and steel bridges in county varying in lengths from 10 to 300 ft., 18 ft. roadway between curbs. About $190,000.

Minn., Minneapolis—Comrs. Hennepin Co. receiving bids for 800 ft. rein.-con. steel bridge, 24 ft. wide, 100 ft. draw span and 500 ft. concrete span over Minnesota River on Lyndale Ave., cost $175,000; 850 ft. rein.-con. bridge, 20 ft. wide, over Minnesota River at Long Meadows, $100,000. E. E. Terrell, co. surv. Noted May 29.

Wyoming—See "Streets and Roads."

Ark., Marion—Until Aug. 7, by Bd. Comrs. of Rd. Impvt. Dist. No. 9 building 2 steel bridges, 2 concrete viaducts and 4 concrete culverts. Morgan Eng. Co., 622 Goodwyn Institute Bldg., Memphis, Tenn., engrs.

Cal., Placerville—See "Streets and Roads."

Cal., Santa Barbara—Until Aug. 4, by Bd. Supervs. Santa Barbara Co., building rein.-con. bridge over Alamo Pintado Creek. C. A. Hunt, clk.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★N. J., Camden—Comrs. Camden Co. let contract building rein.-con. arch bridge over Newton Creek on Nicholson Rd., to J. M. Kelly, 507 Federal St., $59,180. Noted July 17.

★Md., Cumberland—Baltimore & Ohio RR., Baltimore Bldg., Baltimore, let contract building foundation of 33rd St. bridge over Allegheny River, to Vang Constr. Co., 21-24 3rd Natl. Bank Bldg. About $500,000.

★N. C., Long View—Pender Co. (Burgaw) and Bladen Co. (Elizabethtown) let contract building bridge here, to Roanoke Bridge & Iron Co., Roanoke, Va. About $15,500.

★N. C., Walnut Cove—City let contract building 600 ft. bridge, 20 ft. roadway, 6 ft. sidewalk, consisting of 500 ft. steel trestle and 100 ft. span, involving 100 cu. yd. concrete and 120 tons steel, to Virginia Bridge & Iron Co., Roanoke, Va., $16,130.

★Ga., Augusta—Comrs. Richmond Co. let contract building 2 rein.-con. pile and slab bridges over Spirit and Little Spirit Creeks, to Twiggs & Sons, Herald Bldg., $21,466. Noted June 19.

★Wis., Sheboygan—Sheboygan Co. let contract building 750 ft. rein.-con. and steel bridge, 18 ft. wide, in Sherman Twp., to J. Theune, Main St., Cedar Grove, $12,480. Work involves 1790 cu.yd. concrete, 27,820 tons steel, 16 x 55 ft. truss spans with concrete flooring, pier and abutment.

★Minn., Duluth—J. A. Farrell, city comr., rejected bids received July 11 for 250 ft. triple span concrete bridge, 48 ft. wide, in Chester Park. About $37,653. Work will be done by day labor under supervision of E. K. Coe, city engr. Noted June 19.

★Kan., Lawrence—Douglas Co. let contract building Mud Creek Bridge, consisting of two 80 ft. span girders and 20 ft. concrete roadway, on Fort to Fort Rd., to C. Clark & Co., Topeka, $17,066. Noted June 19 under "Streets and Roads."

★Oregon—State Highway Comn., Portland, let contract building (a) wooden truss bridge over Cow Creek, consisting of six 70 ft. spans, near Glendale, Douglas Co.; (b) 3 wooden trestle bridges near Glendale; (c) 1 rein.-con. bridge, over Pass Creek near Comstock; (d) overhead crossing over Southern Pacific RR. near Comstock; (e) 7 rein.-con. box culverts and 2 cattle passes near Elgin on Elgin-Minam Sect. La Grande-Enterprise Highway, (State to furnish steel, cement and gravel); Union Co., (f) one 2 x 5 ft. rein.-con. culvert on Stage Rd. Pass, Douglas Co., to Union Bridge Co., Portland, (a) $18,487, (b) $3136, (f) $978; A. Anderson, Grants Pass, (c) $6931; C. Gardner, Portland, (d) $20,238; Rhymar & Dickie, Prairie City, (e) $1960. Noted July 17.

★Oregon—State Highway Comn., Portland, will build 6 rein.-con. bridges over Furnish Canal near Echo on Old Oregon Trail, Umatilla Co. Work will be done by day labor under supervision of Finnall & Howry, Baker. $15,100. Noted July 17.

Cal., Redwood City—Comrs. San Mateo Co. received bids building rein.-con. bridge over New Year's Creek, from A. Matson, San Bruno, $11,427; C. Miller, Redwood City, $13,500.

Cal., Reedley—See "Streets and Roads."

★Cal., Yreka—Bd. Supervs. Siskiyou Co. let contract building rein.-con. bridge over Sciad Creek, consisting of two 30 ft. spans, to E. K. Loosley, Montague, $60,745.

★N. B., Sackville—Canadian Natl. Rys., Moncton, let contract building substructure of double-track bridge, with three 200 ft. spans, over Tantramar River, to Nova Scotia Constr. Co., Halifax, N. S., $162,200. Noted July 10.

★Que., St. David—Municipal Council let contract building steel bridge with concrete abutments, to La Cie de Constr., Nicolet, Que., $12,500.

★Ont., Arnprior—Comrs. Renfrew Co. let contract, to F. E. Fortin, Arnprior, building concrete bridge over Jamieson's Creek, cost, $1957, over Streasman's Creek, $4749, over Hennesey's Creek, $7866, over Beachburg Creek, $10,850.

Structural Steel

PROPOSED WORK

Mont., Park City—See "Bridges."
Mont., Seips—See "Bridges."
Ont., Pickering—See "Bridges."

Reinforced Concrete

PROPOSED WORK

Minn., Virginia—See "Buildings."

BIDS DESIRED

Ga., Savannah—See "Miscellaneous."

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★Pa., Yorkhaven—See "Miscellaneous."
★Ga., Augusta—See "Bridges."
Minn., Duluth—See "Bridges."
★Ore., Portland—See "Bridges" under Oregon.
Cal., Redwood City—See "Bridges."
★Que., Three Rivers—See "Buildings."
Ont., Arnprior—See "Bridges."
★B. C., Vancouver—See "Buildings."

Streets and Roads

PROPOSED WORK

Mass., Great Barrington—City plans to pave Main St. from St. James Pl., south, concrete, cost $15,000; cement road from Belcher Sq., north, $16,000.

Mass., Winchendon—City soon receives bids resurfacing Central St., from Depot Sq. to Maple St.; also straightening and resurfacing Spruce St., asphalt. About $35,000.

N. Y., Herkimer—Village soon lets contract paving Folts, South Washington and East Smith Sts. About $26,000.

N. Y., New York—F. L. Dowling, pres. Manhattan Boro., rejected bids regulating and repaving with sheet asphalt on concrete base, roadway of Lenox Ave. Noted July 3.

N. J., Jersey—City Bd. Freeholders Hudson Co. soon receivers bids improving Paterson Plank Rd. from Central Ave. to Congress St., West Hoboken Twp., granite block. Cost to exceed $10,000. W. O'Mara, clk.

N. J., Jersey City—State Highway Comn., Broad St. Bank Bldg., Trenton, allotted $210,000 to improve following roads in Hudson Co.: Paterson Plank Rd. from Congress St. to Central Ave., Belleville Turnpike, Paterson Turnpike and Lincoln Highway.

N. J., Secaucus—Town Council plans to improve and repave Front St. About $10,000.

Pennsylvania—State Highway Dept., Harrisburg, rejected bids building roads in Clearfield and Westmoreland Counties. Noted July 17.

Pa., Ebensburg—Cambria Co. rejected only bid received rebuilding 17,490 ft. Carrolltown Twp. Rd., 17 ft. wide, vitr. brick on 5 in. concrete base. About $125,000. D. W. Dillman, 80-81 Altoona Trust Bldg., Altoona, engr. Noted July 10.

Pa., Ebensburg—Cambria Co. received no bids rebuilding 10¼ mi. Croyle Twp. Rd. and 1,205 ft. Conemaugh Boro. Rd., vitr. brick on concrete and cinder base. About $500,000. Noted July 3.

Pa., Pittsburgh—City voted $9,579,000 bonds to pave, reconstruct, widen and open various streets. N. S. Sprague, ch. engr. dept. pub. wks. Noted Jan. 30.

Pa., York—York Co. election Aug. 19 to vote on $2,500,000 bonds to construct highways.

W. Va., Berkeley Springs—Morgan Co. defeated $500,000 bonds to build roads. L. A. Rothrich, co. engr. Noted May 22.

W. Va., Clarksburg—Harrison Co. having plans prepared for improving streets, sewers and bridges; $900,000 bonds have been voted for project.

W. Va., Huntington—Cabell Co. plans to pave 1 mi. Huntington-Salt Rock Rd., 16 ft. wide, vitr. brick. About $34,144. A. B. Maupin, Huntington, engr.

W. Va., Point Pleasant—Mason Co. plans election soon to vote on $70,000 bonds to build roads in Wagner Dist., also $67,000 to build roads in Graham Dist. W. Steenbergen, Point Pleasant, engr.

W. Va., Ripley—Comrs. Jackson Co. plan to build .35 mile Ripley-Parkersburg Pike, surfacing 20 ft. and grading 26 ft. wide, involving 500 cu.yd. excav., 4100 sq.yd. cement concrete surface. About $13,000. Engineer not selected.

Streets and Roads (Continued)

W. Va., St. Mary's—Pleasants Co. plans to grade 5.4 mi. St. Marys-Bens Run Rd., 16 ft. wide. About $30,800. W. J. Alexander, Parkersburg, engr.

W. Va., Summerville—Comrs. Nicholas Co. plan to grade 2½ mi. road between Fenwick and Nettie. About $35,000.

W. Va., Warwood—City defeated $150,000 bond issue to improve streets and sewers. W. F. Bartels, recdr.

W. Va., Winfield—Comrs. Putnam Co. rejected bids received June 19, building 4 mi. Culloden-St. Albans Rd. About $40,000. Work will be readvertised. Noted June 5.

N. C., Jefferson—Comrs. Ashe Co. plan to build 80 mi. macadam roads, 14 ft. wide. W. E. Bright, Jefferson, engr.

S. C., Manning—City soon lets contract paving, curbing and draining 25,000 ft. Main St. About $75,000. Lee & Palmer, Sumpter, engrs.

Ga., Marietta—Cobb Co. election Aug. 15, to vote on $600,000 bonds to build and improve roads.

Ga., Quitman—Brooks Co. voted $500,000 bonds to build roads. Federal Government will appropriate like amount. Noted June 5.

Fla., Bunnell—Comrs. Flagler Co. plan to build 10 mi. of new roads. About $200,000.

Ala., Birmingham—Bd. Revenue Jefferson Co. soon receives bids building 8 mi. road from here to Bessemer. About $275,000. J. W. Gwin, pres. S. R. Batson, co. engr.

Ala., Florence—City soon lets contract paving 55,000 sq.yds. Tennessee, Mobile and Tombigbee Sts., concrete, bitulithic, asphalt, asphaltic concrete, bitoslag and vitr. brick. R. E. Meade, city engr.

Ky., Louisville—Jefferson Co. plans to build 4½ mi. Bardstown Pike from Balke's to Watterson Pike, 18 ft. wide, 3 ft. shoulders on each side, involving 47,520 sq.yd. concrete, 9 in. thick at center, 7 in. at sides, 15,840 sq.yd. 6 in. waterbound macadam, 21,500 cu.yd. earth and rock excav. and 3 small bridges and culverts. About $185,000. Cost to be borne by Jefferson Co., State and Federal Government.

O., Bowling Green—Wood Co. having plans prepared paving 6.75 mi. Western Reserve Rd. from Perrysburgh Twp. to Sandusky Co. line, 16 ft. wide, bituminous bound, cost $148,000; 1.75 mi. Toledo-Elmore Rd., 18 ft. wide, asphaltic concrete on concrete base, $70,000. J. Gallier, Bowling Green, engr.

O., Cincinnati—City plans to pave with granite block, 6th St. from Elm St. to State Ave., $129,100; Baymille St., from 3rd to 7th Sts., $27,300; Mill St., from 5th to 2nd Sts., $27,250; Central Ave., from 3rd to Front Sts., $14,950; Plum St., from 4th to Front Sts., $27,200; Race St., from 4th to Pearl Sts., $12,800; Vine St., from 4th to Front Sts. $23,900; Walnut St., from 4th to Front Sts., $19,900; Main St., from 4th to Front Sts., $19,900; Bway., from 4th to Front Sts., $59,000; Pearl St., from Bway. to Plum St., $59,750; 2nd St., from Ludlow St. to Central Ave., $88,000; 3rd St., from Eggleston Ave. to Smith St., $129,200; widening and paving Liberty St., from Bway. to Highland St., $225,000; with asphalt, 8th St., from Elberon Ave. to St. Joseph's Cemetery, $32,200; Elberon Ave., from Bassett Rd. to Warsaw St., $48,800; 7th St., from Vine to Carr Sts., $99,200; 4th St., from Bway. to Smith St., $95,200; with granite and wood block, 5th St., from Pike to Freeman Sts., $163,800; Main St., from 4th to McMicken Sts., $80,100; Erie Ave., from Bramble to Wetzel Sts., wood block, $35,100; Wetzel Ave., from Madison to Bramble Sts., $51,800; Madison Rd., from Stewart Pl. to Plainville Pike, pavement undetermined, $70,300. Election Aug. 12, to vote on bonds for project. F. Krug, city engr.

O., Cincinnati—City plans to widen 5th St. from Main to Pike Sts. and build viaduct 2000 ft. long from 5th and Pike Sts., out 3rd St. to Gladstone St. to Kemper and Francis Lanes. This is part of the boulevard system.

O., Cincinnati—Hamilton Co. plans to pave Cincinnati-Louisville Pike from Chevlot to Cleves, cost $371,300; also section of Cincinnati-Louisville Pike west of Cleves, $105,000.

O., Cincinnati—Hamilton Co. rejected bids received paving Carthage-Hamilton Rd. from Hartwell to Wyoming. About $110,000. Work will be readvertised.

O., Columbus—Comrs. Franklin Co. rejected bids received July 8, grading, building bridges and culverts and paving with brick on 4.5 mi. Harbor Rd., 26 ft. wide. About $342,213. Work will be readvertised. Noted June 26.

Mich., Detroit—Dept. Pub Wks. soon lets contract paving following streets with asphaltic concrete on 6 in. concrete base, Berea, Medina or Amherst curbstone: Chapin Ave from Seneca to Burns Aves., Clairpointe Ave. from Essex Ave. to point 520 ft. south Jefferson Ave., Garland Ave. from Canfield to Shoemaker Aves., Granger Ave. from Baldwin to Van Dyke Aves., Kirby Ave. from Baldwin to Van Dyke Aves., Louis Ave. from Holcomb to Belvidere Aves., Springle Ave. from Kercheval to Charlevoix Aves. and St. Clair Ave. from Warren to Shoemaker Aves., all 26 ft. wide, involving 21,575 cu.yd. excav., 24,446 lin. ft. curbstone, 35,803 sq.yd. paving and base and 678 cu.yd. concrete curb setting, etc. C. W. Hubbell, city engr.

Mich., Detroit—Dept. Pub. Wks. soon receives bids paving with asphaltic concrete on 6 in. concrete foundation, Berea, Amherst or Medina curbstone, Kanter St. from Elmwood to Moran Sts., cost $9600; Olivet St. from Distel to Woodmere Aves., $4070, Wilson Ave. from Hazelwood to Taylor Aves., $5100, all 26 ft. wide; with 1 course concrete, alley between Brush St., Oakland and Kenilworth Aves. and Leicester Ct., $4079, "T" alley between Russell, Riopelle and Theodore Sts. and Warren Ave., $3850, both 20 ft. wide. C. W. Hubbell, city engr.

Ill., Danville—City plans to build 1 mi. Perrysville Rd., 2600 lin.ft. Chandler St., 3500 lin.ft. Fairchild St., 2300 lin.ft. West Winter Ave., 2700 lin.ft. Sherman St., 550 lin.ft. Mann St., all 27 ft. wide on 4 in. concrete base. Also resurface ½ mi. 30 ft. Tarvia macadam pavement on Logan Ave.

Ill., Danville—City soon receives bids paving Cronkhite and Kentucky Aves., involving 4000 lin.ft. 27 ft. asphalt filled brick pavement with 4 in. concrete base and 1 in. sand cushion.

Wis., Brodhead—City soon lets contract grading 2.9 mi. Main St., 20 ft. wide, involving 11,357.2 sq.yd. rein.-con., 140 lin. ft. 12 in. vitr. pipe, 4 catch basins, etc. About $25,000. E. L. Edwards, c/o Green Co. Highway Comn., Monroe, engr.

Wis., Sheboygan—City plans to grade and pave 3 mi. North 3rd St. from Center to Bluff Aves., 20 ft. wide, involving 20,000 sq.yd. 2 course concrete with combined curb and gutter. About $45,000. C. U. Boley, city engr.

Minn., Albert Lea—Comrs. Freeborn Co. received no bids grading and graveling 11.5 mi Federal Aid Project No. 61, State Rd. No. 6, 24 ft. wide. About $60,000. E. V. H. Brown, Albert Lea, engr. Noted May 22.

Minn., Cambridge—Isanti Co. rejected bids received July 14, graveling road, 7000 yd. long, 24 ft. wide. About $25,000. P. M. Torell, Cambridge, engr.

Minn., Duluth—J. A. Farrell, city comr., soon lets contract paving 866 ft. Helen St. from 26th to 28th Aves., W., concrete. About $11,387. Work involves 1725 lin.ft. concrete curbing, 2420 sq.yd. concrete, and 972 cu.yd. excav. E. K. Cae, city engr.

Minn., Duluth—J. A. Farrell, city comr., soon lets contract laying 1 course concrete roadway and 6 ft. concrete sidewalk on 1150 ft. 64th Ave., W., from Grand Ave. to Roosevelt St., 24 ft. wide, involving 4175 sq.yd. concrete, 1150 lin.ft. concrete curbing, 6930 lin.ft. concrete sidewalk, 2645 cu.yd. earth excav., 1332 ft. 12-24 in. pipe, cost $22,408; brick roadway on 4906 ft. Railroad St. from 7th Ave., W., to Garfield Ave., 30 ft. wide, 15,800 sq.yd. vitr. brick, 9500 cu.yd. earth excav., 500 ft. 3 in. drain tile, 1200 ft. 12 in. sewer pipe, and 100 ft. 3 x 4 in. concrete culverts, $83,113.

Minn., Duluth—St. Louis Co. voted $7,500,000 bonds to build roads. W. H. Borgen, aud.

Minn., Duluth—Comrs. St. Louis Co. receive bids about Sept. 1, improving 54 mi. Miller Trunk Highway from here to Eveleth, 18 ft. wide. About $2,000,000. Work involves grading and placing 1 course concrete surface on road to serve as trunk artery. A. W. Acton, co. engr. Bonds for $7,500,000 recently voted for road work throughout county.

Minn., Ivanhoe—Comrs. Lincoln Co. received no bids July 14, graveling 3½ mi. Job. No. 1903, State Rd. No. 3, cost, $21,000 and 3 mi. Job No. 1902, State Rd. No. 5, $18,000. Work will be readvertised. E. Hangan, Ivanhoe, engr. Noted June 26.

Kan., Frankfort—City plans to improve 1600 ft. Kansas Ave. and 2nd St., involving 15,000 sq.yds. vertical fibre brick and 3000 lin.ft. concrete curbing. About $50,000. Shockley Eng. Co., 740 Reserve Bank Bldg., Kansas City, Mo., engrs.

Kan., Lawrence—Douglas Co. rejected bids received June 30, building Sects. E and F of Fort to Fort Rd., 18 ft. wide, vertical fibre paving and concrete curbing. Work will be readvertised. L. Duffie, co. engr. Noted June 19.

Kan., Leavenworth—City soon lets contract paving Delaware St., asphaltic concrete. F. Metschan, clk.

Montana—State Highway Comn., Helena, plans to pave streets in Whitehall, cost $40,000; 2540 ft. Main St., Lewistown, $30,000; .54 mi. Pike St. and 1st Ave., concrete, Columbus, 18 ft. wide, $18,000; .9 mi. Merrill Ave. and Bell St., Glendive, $95,000. Federal Government will be asked to appropriate towards cost. P. D. Pratt, state highway engr.

Montana—State Highway Comn., Helena, rejected bids received June 18, gravel surfacing 4 mi. Forsyth-Ashland Rd., Rosebud Co. P. D. Pratt, state highway engr. Noted June 12.

Montana—State Highway Comn., Helena, received no bids June 18, gravel surfacing 4 mi. Yellowstone Trail, 4 mi. Red Trail No. 2, and 5 mi. Red Trail No. 1. P. D. Pratt, state highway engr. Noted June 12.

Montana—State Highway Comn., Helena, plans to gravel surface 14.5 mi. Pine Creek-Emigrant Rd., cost $40,000, 12½ mi. Yellowstone Trail, $50,000; 8 mi. Carbella-Corwin-Yankee Jim Canyon Rd., $30,000, Park Co.; 45 mi. Great Falls-Monarch Rd., Cascade Co., $225,000; 6 mi. Emmet St.-Anaconda Rd., $120,000, 5 mi. Basin Creek Rd., $100,000, 4 mi. Elk Park Rd., $80,000, 10 mi. Nine Mile Rd., $200,000, Silver Bow Co. P. D. Pratt, state highway engr.

Montana—State Highway Comn., Helena, soon lets contract grading, draining and gravel surfacing 19 mi. Sun River Rd. between Great Falls and Sun River, Cascade Co., Federal Aid Project No. 10; also 3½ mi. Billings Cody Way, Carbon Co., involving river protection, consisting of 3000 ft. earth dyke with rock and brush rip-rap. Noted Jan. 23.

Mont., Baker—Fallon Co. election Sept. 2 to vote on $275,000 bonds to improve roads. Federal Government will appropriate toward cost. P. D. Pratt, c/o State Highway Dept., Helena, engr.

Mont., Bozeman—City soon receives bids paving 3rd Ave. from Main to Mendenhall Sts. and Mendenhall St., from 3rd to 5th Sts., bitulithic. About $10,000. C. Widener, city engr.

Mont., Helena—Lewis and Clark Co. election Sept. 2 to vote on $200,000 bonds to improve roads. Federal Government will appropriate toward cost. P. D. Pratt, c/o State Highway Dept., Helena, engr.

Mont., Hysham—Treasure Co. election Sept. 2 to vote on $160,000 bonds to improve roads. Federal Government will appropriate toward cost. P. D. Pratt, c/o State Highway Dept., Helena, engr.

Mont., Livingston—Park Co. voted $150,000 bonds to improve roads. C. T. Sackett, Livingston, engr. Noted Feb. 20.

Mo., Alton—Oregon Co. plans election to vote on $300,000 bonds to build roads. Address W. I. Cotham, Alton, presiding judge.

Mo., Chillicothe—Livingston Co. election Aug. 18 to vote on $1,200,000 bonds to improve roads. J. Broaddus, Chillicothe, engr.

Streets and Roads (Continued)

Mo., Clayton—Comrs. St. Louis Co. receive bids about Sept. 1, grading and paving 3½ mi. Clayton Rd. between St. Louis and Denny Rd., bituminous concrete. About $120,000. W. Elbring, co. engr. Noted June 5.

Mo., Galena—Stone Co. plans to build rock roads. About $100,000. W. T. McCulloch, Galena, engr.

Mo., Hannibal—Marion Co. election Aug. 12, to vote on $1,500,000 bonds to build roads. A. V. Ely, Palmyra, engr.

Mo., Jefferson City—City Council voted to improve various streets, gravel and asphalt. C. P. Hardin, engr.

Mo., Jefferson City—Capitol Bldg. Comn., Jefferson City, soon receives bids grading State Capitol grounds; $25,000 appropriated for project.

Mo., Linneus—Linn Co. election Aug. 19 to vote on $1,000,000 bonds to build hard surfaced roads. D. E. Peery, Linneus, engr.

Mo., Mexico—Audrain Co. plans election soon to vote on $700,000 bonds to build roads. Address Co. Court, S. C. Groves, presiding judge.

Mo., Palmyra—Marion Co. election Aug. 12, to vote on $1,500,000 bonds to build roads. A. V. Ely, Palmyra, engr.

Mo., Paris—Monroe Co. election Aug. 2, to vote on $1,000,000 bonds to build hard surface roads. Address Co. Court, E. M. Lipp, presiding judge.

Mo., Troy—Lincoln Co. plans to build state roads from Old Trails Rd. through county. About $20,000. A. W. Graham, c/o State Highway Dept., Jefferson City engr.

Mo., Versailles—Morgan Co. election Aug. 26, to vote on $150,000 bonds to build roads. W. R. Stevenson, co. surv.

Mo., Webster Groves (St. Louis P. O.)—City receives bids about Sept. 1 paving 1¼ mi. Gray Ave., from Lockwood St. to Big Bend Rd., 30 ft. wide, rein.-con., concrete curbing. Cost to exceed, $10,000. J. Stecker, city engr.

Mo., Webster Groves (St. Louis P. O.)—City receives bids about Aug. 15, paving 2200 ft. Clark St. from Summit Ave. to Yeatman St., 25 ft. wide, rein.-con., concrete curbing. Cost to exceed $10,000. J. Stecker, city engr.

Tex., Austin—Travia Co. plans election soon to vote on $5,500,000 bonds to build 303.71 mi. bituminous topped macadam and 133.59 mi. graded and gravel surfaced roads and streets. O. E. Metcalfe, Austin Natl. Bank Bldg., engr.

Tex., Fredericksburg—Gillespie Co. plans to improve 17,617 mi. State Highway No. 9 from here to Mason Co. line, 16-24 ft. wide, involving building surfaced road with crushed rock, concrete dips and stone culverts and clearing and grubbing 64 acres. About $138,000. A. H. Kneese, co. judge.

Tex., Marble Falls—Burnet Co. voted $55,000 bonds to build roads. J. R. Smith co. judge. Engineer not selected. Noted July 3.

Okla., Stroud—City having plans prepared by Johnson & Benham, engrs., Firestone Bldg., Kansas City, Mo., for paving 20 blocks.

Idaho—State Highway Comn., Boise, plan to build 40 mi. Greer Rd. from Clearwater River to Pierce Rd. About $230,000. Federal Government will appropriate $130,000. D. Olson, state highway engr.

Idaho, Rupert—City soon lets contract paving 27,718 sq.yd. various streets, involving 4388 lin.ft. concrete curbing and 28,218 sq.yd. earth and rock excav. About $10,000. L. B. Redford, clk. L. C. Kelsey, 410 Selling Bldg., Portland, Ore., engr.

Wash., Wapato—City soon lets contract paving 20,000 sq.yd. streets, bitulithic, concrete or asphalt. C. A. Norton, clk.

Oregon—State Highway Comn., Portland, rejected bids paving 4.2 mi. Salem-Brooks Sect., Pacific Highway, Marion Co., improving and grading 12.5 mi. Unit No. 2, Valades Ranch Rd., Grant Co., 11.5 mi. Unit No. 4, Service Creek-Vallades Ranch Rd., Wheeler Co., 7.9 mi. Yamhill-Gaston Rd., McMinnville Co. and 7.7 mi. Yoncalla Rd., Douglas Co. Work will be readvertised.

Ore., McMinnville—Yamhill Co. soon lets contract grading, building culverts and paving 2.9 mi. West Dayton Rd. to Yamhill River Bridge, Dayton, concrete. R. W. Jones, engr.

Ore., Portland—City soon lets contract paving Clatsop Ave., from East 13th to 17th Sts., asphaltic concrete No. 1 or No. 2 on crushed rock base or concrete Nos. 1 and 2; Linn Ave., from East 13th to 17th Sts., concrete Nos. 1 and 2 or asphaltic concrete on crushed rock base; building artificial stone or asphalt sidewalks, concrete foundation not less than 3 in. deep, on west side of East 12th St., from Emerson St. to point 150 ft. north; paving roadway Hawthorne Ave. to Sandy Blvd., between East Oak and East Pine Sts., with asphaltic concrete No. 1 or 2 on crushed rock base, balance to be paved with asphaltic concrete No. 1 or 2 redress except intersection of East Morrison St. between tracks, which is to be paved with concrete No. 1 or 2 with 2 in. ballast under rails of Light & Power Co., on 6 in. concrete foundation. O. Laurgaard, city engr.

Cal., Alturas—Bd. Supervs. Modoc Co. voted $400,000 bonds and Federal Government will appropriate like amount to build roads.

Cal., Oakland—City soon lets contract grading, curbing, guttering and paving 2000 ft. Fruitvale and Whittle Aves., 26 ft. wide, involving 9524 sq.yd. oil macadam 6396 lin. ft. redwood curbing, 19,156 sq.ft. concrete gutter and 5870 sq.ft. cement sidewalk. About $35,000. W. Campbell, city engr.

Cal., Placerville—Marshall Blvd. Impvt. Dist., El Dorado Co., voted $150,000 bonds to cut down grades, widen curves and build bridges on 60 mi. roads between here and Auburn Co. line.

Cal., Red Bluff—Bd. Supervs. Tehama Co. voted $86,000 bonds to build highways. Noted June 26.

Cal., Selma—City plans to improve 3 mi. streets.

Que., Montreal—Dept. Rds., Parliament Bldg., Quebec, receives bids in August, macadamizing road from here to St. Anne de Bellevue, 30 ft. wide, 10 mi. with waterbound and 12 mi. with bituminous macadam. About $150,000. M. Henry, c/o Dept. Rds., engr.

Ont., Aurora—Town soon lets contract paving Yonge St., 24 ft. wide, involving 4000 sq.yd. bituminous bound macadam on 6 in. concrete base and 8600 lin.ft. concrete curb and gutter. About $75,000. E. A. James, 57 Adelaide St., E., Toronto, engr.

Ont., Bancroft—Dept. of Highway, Toronto, receives bids in August building 6 mi. bituminous macadam road from Madoc to Tudor, 25 ft. wide. About $30,000.

Ont., Ottawa—Bd. Control soon receives bids building asphalt pavement on Stanley Ave. from Sussex to Union Sts. About $12,000. A. J. McCallum, City Hall, Ottawa, engr.

Ont., Ottawa—City Council passed bylaw authorizing expenditures of $47,421 for concrete sidewalks, $8062 for pavement on Dalhousie St., and $40,438 for various other streets. N. H. H. Lett, clk.

Ont., Simcoe—Town having plans prepared and soon receives bids paving Townsend St., tarvia macadam, 24 and 30 ft. wide. About $20,000. G. R. Marston, town clk.

Alta., Edmonton—City Council passed bylaw to authorize expenditure of $200,000 to build sidewalks on Jasper Ave. and various streets.

B. C., New Westminster—Dept. Pub. Wks., Victoria, soon lets contract paving 3½ mi. Pacific Highway, 16 ft. wide. Alternative bids will be received on 1 course concrete, asphaltic concrete on concrete base and asphaltic concrete on macadam base.

B. C., Point Grey—W. B. Greig, engr., Municipal Hall, Kerrisdale, receives bids in about 3 weeks resurfacing 2000 ft. Highway St., from 16th to 21st Ave., 16 ft. wide, oil macadam or asphalt, for city. About $12,500.

BIDS DESIRED

Vermont—Until Aug. 5, by State Highway Comn., Montpelier, building 3.8 mi. gravel road in Williston and Irasburg Twps., 2.35 mi. bituminous macadam road, Fairlee Twp., 1.4 mi. concrete road, Colchester and Essex Twps. S. B. Bates, comr.; advertised in this issue.

Connecticut—Until July 31, by State Highway Comn., Capitol, Hartford, improving 4773 ft. Nichols Rd., bituminous macadam or bituminous concrete, Bridgeport Twp.; 4200 ft. Killingworth Rd., Chester Twp., 5205 ft. Westminster Rd., both native stone macadam, Canterbury Twp., 4350 ft. Gildersleeve Rd., Portland Twp., 4625 ft. Canterbury Rd., both gravel, Plainfield Twp.; 4515 ft. Hawleyville Rd., graded with trap rock top, Newtown Twp.; 5400 ft. Eels Hill Rd., 3 in. bituminous macadam over stone base, Milford Twp.; 3625 ft. Orange Sta. Rd., 7 in. native stone macadam, Orange Twp.; also for substructure and grading approaches of steel drawbridge over Niantic River, East Lyme and Waterford Twps. C. J. Bennett, state highway comr.; advertised in this issue.

N. Y., New York—Until July 30, by F. L. Dowling, pres. Manhattan Boro, regulating and repaving with granite block pavement on concrete foundation, roadway of Brome St. from Bowery to Centre St., Walker St. from Centre to Baxter Sts., and Bleecker St. from Lafayette St. to Bway.

N. Y., Poughkeepsie—Until July 31, by Bd. Pub. Wks., Eastman Park Mansion, for 5000 lin.ft. new concrete curb and gutter in place. W. J. Davis, clk.; advertised in this issue.

N. Y., S. I., St. George—Until July 28, by C. D. Van Name, pres. Richmond Boro, repairing with wood block pavement roadway of Bay St. from Hannah to Thompson Sts.

New Jersey—Until Aug. 6, by State Highway Comn., Broad St. Bank Bldg., Trenton, building 2090 sq.yd. State Highway Route No. 4, Navesink River Sect., Monmouth Co., involving 2090 yd. concrete surface. A. L. Grover, ch. clk.; advertised in this issue.

N. J., Burlington—Until Aug. 6, by Comrs. Burlington Co., building 1059 sq.yd. concrete surface pavement from Florence Sta. to State Highway Route No. 2, 16 ft. wide. J. Logan, Mt. Holly, engr.

N. J., Freehold—Until Aug. 6, by Bd. Freeholders Monmouth Co., rebuilding Freehold-Adelphia Rd., Sect. 2, involving 11,734 sq.yd. surface pavement. W. M. Bergen, dir.; advertised in this issue.

N. J., Mt. Holly—Until Aug. 6, by Bd. Freeholders, Burlington Co., improving road from Florence Sta. to State Highway Route No. 2, involving 4059 sq.yd. concrete surface. H. Hawkins, Jr., clk.; advertised in this issue under "Florence."

N. J., Newton—Until Aug. 4, by Bd. Freeholders Sussex Co., improving Ogdensburg-Sparta Rd., Franklin and Ogdensburg Boroughs, Sparta Twp., bituminous macadam surface on macadam foundation, involving 46,790 sq.yd. surface pavement, 46,790 sq.yd. foundation and 45,501 cu.yd. excav. R. L. Slater, clk.; advertised in this issue.

Pennsylvania—Until Aug. 5, by State Highway Dept., Harrisburg, rebuilding roads in Beaver, Bedford, Cambria, Centre, Clearfield, Dauphin and Perry, Erie, Fayette, Indiana, Juniata and Snyder, Lackawanna, Lycoming, Northampton, Schuylkill, Venango and Westmoreland Counties. L. S. Sadler, state highway comr.; advertised in this issue.

Pa., Pittsburgh—Until Aug. 7, by J. P. Moore, Allegheny Co. controller, paving 15,100 ft. Ardmore Blvd., from Wilkinsburg boro. line to Electric Ave., North Braddock, 24 ft. wide, concrete; 15,840 ft. Imperial and Clinton Rds., Findlay Twp., 16 ft. wide, asphaltic concrete; widening 10,500 ft. Verona Rd. from Frankstown to Saltsburg Rds., Penn Twp., from 16 to 24 ft. wide, and surfacing with asphaltic concrete on concrete foundation.

Maryland—Until July 29, by State Roads Comn., 601 Garrett Bldg., Baltimore, building 2 mi. York Rd. from Parktown toward Pennsylvania State line, Baltimore Co., Contr. B-30, and 2 mi. Bucketstown Turnpike, 6 in. concrete and 3 ft. dirt shoulders, Frederick Co., Contr. F-31. Address F. H. Zouck, chn.; advertised in this issue.

Maryland—Until Aug. 5, by State Roads Comn., 601 Garrett Bldg., Baltimore, building .75 mi. Liberty Rd. from Gwynn Oak Jct. to Baltimore City limits, macadam Baltimore Co., Contr. BC-31; also

Streets and Roads (Continued)

grading and draining 2 mi. Urbana Turnpike from Monocacy River Bridge to Hope Land, Frederick Co., Contr. F-27. Address F. H. Zouck, chn.; advertised in this issue

W. Va., Charleston—Until Aug. 12, by Comrs. Kanawha Co., paving 3 mi. Sissonville Rd., 13 ft. wide between edging, asphaltic concrete. Topeka mix or similar pavement on concrete base. F. G. Burdette, Charleston, engr.

W. Va., Huntington—Until Aug. 4, by Comrs. Cabell Co., paving 1 mi. Huntington-Hamlin Rd., 16 ft. wide, brick, on concrete base. About $35,000. Oliver & Maupin, Huntington, engrs.

W. Va., Lewisburg—Until Aug. 5, by Comrs. Greenbrier Co., grading 6 mi. Ft. Springs-Roncevert Rd., involving 43,000 cu.yd. excav. About $45,000. F. Rader, Lewisburg, engr. Noted July 10.

N. C., Beaufort—Until Aug. 12, by Comrs. Beaufort Co., grading and paving highway, involving 270,000 sq.yd. paving, 150,000 cu.yd. grading, 5000 ft. storm drainage, 820 cu.yd. bridge concrete and 150,000 ft. reinforcing bars. About $500,000. G. C. White, Durham, engr.

N. C., Fayetteville—Until July 29, by City Council, paving and draining 21,000 sq.yd. various streets. About $70,000. E. C. Derby, Fayetteville, engr.

S. C., Edgefield—Until July 30, by Comrs. Edgefield Co., relocating, grading, draining and surfacing with top soil 8.42 mi. Dixie Highway, from here to Turkey Creek, 30 ft. wide. About $35,000. J. R. Pennell, c/o State Highway Dept., Columbia, engr. Noted June 19.

Ala., Birmingham—Until Aug. 11, by Bd. Revenue Jefferson Co., Court House, building and improving 5 mi. Mt. Pinson Rd., between here and Mt. Pinson, Project No. 55, involving 1.5 acres clearing and grubbing, 7929.5 cu.yd. excav., 83.6 cu.yd. Class "B" concrete, 58.665 sq.yd. pavement, pipe, etc.; 3.88 mi. Old Stouts Rd., between here and Fulton Springs, Project No. 56, 1 acre clearing and grubbing, 15,938.9 cu.yd. excav., 41.16 cu.yd. Class "A" and 126.88 cu.yd. Class "B" concrete, 3216 lb. rein. steel, 44,837 sq.yd. pavement, pipe, etc.; 6 mi. South Bessemer Rd., between Birmingham and Bessemer, Project No. 57, 36,000 cu.yd. excav., 136 cu.yd. Class "A," 90 cu.yd. Class "B" concrete, 15,000 lb. reinforcing steel, 70,398 sq.yd. pavement, pipe, etc.; 4.54 mi. Lovick and Leeds Rd., Project No. 58, 19.2 acres clearing and grubbing, 32,188 cu.yd. excav., 113.5 cu.yd. Class "B" concrete, pipe, etc.; 5 mi. Birmingham and Jasper Rd., between Pratt City and Adamsville, Project No. 59, 40,000 cu.yd. excav., 100 cu.yd. Class "A" and 150 cu.yd. Class "B" concrete, 12,000 lb. rein. steel, 52,800 sq.yd. pavement, pipe, etc.; 6 mi. Birmingham-Montgomery Rd., Project No. 18, 24,725 cu.yd. excav., 21 cu.yd. Class "A," 45 cu.yd. Class "B," and 3 cu.yd. Class "C" concrete, 2250 lb. rein. steel, 47,520 sq.yd. pavement, 1200 lin.ft. guard rail, 27 cu.yd. cement stone masonry, pipe, etc. Total cost, about $850,000. Federal government and State will appropriate one-half of cost. S. R. Batson, co. engr. W. S. Keller, c/o State Highway Dept., engr.

Ohio—Until Aug. 5, by State Highway Comn., building roads in following counties:

Columbiana Co., Sect. "J" Salem-Alliance Rd., 4.12 mi., grading, constructing bridges and culverts and paving with brick, cost $146,408.

Cuyahoga Co., Bedford Sect. Akron-Cleveland Rd., .61 mi., grading and paving with brick, $36,205.

Sects. "J," "G-1" and "G-2" Cleveland-Wooster Rd., 9.75 mi.; grading, constructing bridges and culverts and paving with bituminous concrete, $163,350.

Darke Co., Sects. "B" and "C" Dayton-Greenville Rd., 1.34 mi., grading, constructing bridges and culverts and paving with concrete, $123,083.

Sect. "F," Celina-Greenville Rd., 4.61 mi., grading, constructing bridges and culverts and paving with concrete, $151,110.

Sect. "A," Versailles-Western Rd., 4.31 mi., grading, constructing bridges and culverts and paving with brick, $170,344.

Fayette Co., Sect. "A" Columbus-Washington C. H. Rd., 5.01 mi., grading, constructing bridges and culverts and paving with waterbound macadam or bituminous macadam, $113,534.

Hamilton Co., Sect. "D" Cincinnati-Louisville Rd., 5.99 mi., grading, constructing bridges and culverts and paving with Warrenite, bitoslag, concrete or monolithic brick, $356,100.

Sect. "A" Harrison Pike, 2.96 mi., grading, constructing bridges and culverts and paving with semi-monolithic brick, concrete, Warrenite or bitoslag, $165,453.

Sect. "B" Harrison Pike, 3.66 mi., grading, constructing bridges and culverts and paving with semi-monolithic brick, concrete, Warrenite or bitoslag, $231,565.

Hardin Co., Sect. "E" Findlay-Kenton Rd., 3.66 mi., grading, constructing bridges and culverts and paving with concrete or bituminous concrete, $70,440.

Knox Co., Sect. "P" Columbus-Wooster Rd., 5.08 mi., grading, constructing bridges and culverts and paving with concrete, $193,842.

Mercer Co., Sect. "G" St. Mary's-Celina Rd., 5.49 mi., grading, constructing bridges and culverts and paving with concrete, $153,520.

Celina Sect. St. Mary's-Celina Rd., .25 mi., grading and paving with concrete, $6652.

Montgomery Co., Sect. "M" Dayton-Indianapolis Rd., 3.10 mi., grading, constructing bridges and culverts and paving with rein.-con., $93,572.

Pickaway Co., Sect. "B" Circleville-Adelphi Rd., 1.45 mi., grading, constructing bridges and culverts and surfacing with gravel, $19,236.

Portage Co., Sect. "U" Ravenna-Warren Rd., 2.97 mi., grading, constructing bridges and culverts and paving with waterbound macadam, $85,939.

Sect. "V" Ravenna-Warren Rd., 3.14 mi., grading, constructing bridges and culverts and paving with waterbound macadam, $79,747.

Sect. "W" Ravenna-Warren Rd., 2.37 mi., grading, constructing bridges and culverts and paving with waterbound macadam, $53,557.

Shelby Co., Sect. "F" Sidney-Wapakoneta Rd., 3.52 mi., grading, constructing bridges and culverts and paving with concrete or bituminous macadam, $95,361.

Sect. "B-2" Piqua-Mt. Mary's Rd., 1 mi., grading, constructing bridges and culverts and paving with rein.-con., $27,405.

Sect. "A-2" Urbana-Sidney Rd., .95 mi., grading, constructing bridges and culverts, and paving with bituminous macadam, $28,531.

Sect. "G" Piqua-Sidney Rd., 3.07 mi., grading, constructing bridges and culverts, and paving with plain concrete, $89,576.

Trumbull Co., Sect. "N-1" Youngstown-Conneaut Rd., 1.93 mi., grading, constructing bridges and culverts, and paving with bituminous macadam, $40,346.

Sect. "B" Warren-Burton Rd., 3.51 mi., grading, constructing bridges and culverts, and paving with bituminous macadam, $110,331.

Sect. "S" Warren-Burton Rd., 1.34 mi., grading, constructing bridges and culverts, and paving with brick, $32,848.

Wood Co., Sect. "B-1" Toledo-Elmore Rd., 1.75 mi., grading, constructing bridges and culverts, and paving with bituminous concrete, $67,700.

Sect. "F-1" Findlay-Bowling Green Rd., 3.03 mi., grading, constructing bridges and culverts, and paving with rein.-con. or bituminous concrete, $92,600.

Sect. "F-2" Findlay-Bowling Green Rd., 3.10 mi., grading, constructing bridges and culverts, and paving with rein.-con. or bituminous concrete, $102,495.

O., Martin's Ferry—Until July 29, by Dir. Pub. Serv., furnishing material (except paving block) for paving School St. from Bway. to Pearl St.; Colerain Pike from 10th St. to corporation line; alley between Washington and Jefferson Sts., from Catawba St. to Euclid Ave. A. J. Fallen, clk.

Ill., Rankin—Until July 29, by village, for 1¼ mi. concrete pavement, 16-50 ft. wide. P. Henneberry, pres.; advertised in this issue.

Ia., Iowa City—Until Aug. 1, by G. Doher, city clk., for grading, paving and curbing Newton Rd. involving 3600 cu.yd. excav., 7300 sq.yd. paving, and 4870 lin.ft. combined curb and gutter. About $24,000. Advertised in this issue.

Minn., Little Falls—Until Aug. 5, by Comrs. Morrison Co., grading and graveling 12 mi. Federal Aid Project No. 24, Job No. 2, State Rd. No. 2, involving 47,586 cu.yd. excav., 14 433 cu.yd. gravel surfacing, 42,821 cu.yd. overhaul, etc. A. J. Fenn, Little Falls, engr. Noted May 22.

Minn., Nashwauk—Until Aug. 4, by H. A. Olsen, village recdr., paving 3rd St. from Hawkins to Roberts Ave., crushed rock and tarvia.

Minn., Ortonville—Until Aug. 6, by A. V. Randell, aud. Big Stone Co., building 10 mi. Federal Aid Project No. 66, State Rd. No. 3, involving 65,000 cu.yd. excav., 12,000 cu.yd. gravel surfacing material, culverts, etc. About $60,000. L. P. Zimmerman, Ortonville, engr.

Minn., St. Paul—Until July 28, by H. W. Austin, city purch. agt., City Hall, improving Locust St. between 6th and 10th Sts., involving 2518 sq.yd. vitr. clay brick paving blocks, 40,452 lbs. filler, 562 bbls. Portland cement, 353 lin.ft. 12 in. sewer pipe, 3600 sewer bricks, etc. O. Claussen, city engr.

Minn., Zumbrota—Until Aug. 1, by J. D. Grover, village clk., paving 3 blocks with concrete, 60 ft. wide. About $14,000. A. E. Rhame, Red Wing, consult. engr.

N. D., Minnewaukan—Until Aug. 8, by Comrs. Benson Co., building 24.2 mi. earth road from here to Church's Ferry, Federal Aid Project No. 27. About $28,000. W. H. Robinson, c/o State Highway Dept., Bismarck, engr.

N. D., Napoleon—Until Aug. 1, by Comrs. Logan Co., building 22.4 mi. earth road, Federal Aid Project No. 35, involving 780 cu.yd. class "A" and 127,660 cu.yd. class "B" excav., 280 cu.yd. loose rock excav., 237 cu.yd. class "B" 1-2½-5 concrete, 336 lin.ft. 12 in. and 360 lin.ft. 18 in. concrete metal pipe, etc. About $34,210.

Wyoming—Until July 29, by State Highway Comn., Cheyenne, building following Federal Aid projects:

No. 33. Albany Co., 2.16 mi. Lincoln Highway from Laramine east, involving 8500 cu.yd. excav. and embankment, 20,700 sq.yd. macadam surfacing, one 24 ft. I beam bridge, cost $26,153.

No. 37. Goshen Co., 9.195 mi. Platt River Highway Sect. 1, between Lingle and Torrington, 48,000 cu.yd. excav. and embankment, 10,800 cu.yd. gravel surfacing, 300 cu.yd. concrete in bridge and culverts, 10,000 lb. steel in bridges and culverts, $40,980.

No. 38. Hot Springs Co., 3.38 mi. Yellowstone Highway, Thermopolis north, 20,000 cu.yd. excav. and embankment, 5400 cu.yd. gravel surfacing, 5 concrete box culverts, $30,000.

No. 28. Sheridan Co., 4.16 mi. road from Sheridan to Dietz, 30,000 cu.yd. excav. and embankment, 6500 cu.yd. shale surfacing, 430 cu.yd. concrete, 41,000 lb. reinforcement, etc., $51,319.

No. 19. Natrona Co., 3.18 mi. extension pavement on Casper-Salt Creek Rd. 29,850 sq.yd. concrete surface.

No. 32. Fremont Co., 2 steel bridges 125 ft. span over Wind River Lander-Du Bois Rd.

Montana—State Highway Comn., Helena, soon lets contract gravel surfacing 19 mi. Sun River Rd., Cascade Co. P. D. Pratt, state highway engr. Noted Jan. 23.

Mo., Jefferson City—Until Aug. 11, by E. W. Stephens, chn. State Capitol Comn., grading, building walks, drives, etc., on Capitol grounds. L. Landman, State Capitol, supt. grounds.

Streets and Roads (Continued)

Arkansas—Until Aug. 5, by State Highway Comn., Little Rock, building 84.37 mi. road, asphaltic concrete on rolled stone base, warrenite on rolled stone base, asphaltic macadam, penetration method, waterbound macadam or clay gravel; advertised in this issue.

Arkansas—Until Aug. 21, by State Highway Dept., Little Rock, building 18.6 mi. gravel road from DeQueen through Lockesburg, to the Saline River, involving 24 acres clearing and grubbing, 197,900 cu. yds. earthwork, etc. Lund & Hill, Little Rock, engrs.

Ark., Walnut Ridge—Until Aug. 18, by Comrs. of Western Lawrence Co. Rd. Impvt. Dist., at office of State Highway Dept., Little Rock, building 4 systems of roads, involving 60 mi. grading, 56 acres clearing and grubbing, 137,700 cu.yds. earth and 4500 cu.yds. rock excav., 5736 ft. 15-30 in. metal culverts, 66,400 lb. rein. steel, etc. Pritchett & Hight, Walnut Ridge, engrs.; advertised in this issue under Imboden, Ark.

Utah, Hyrum—Until Aug. 4, by City Council improving 2900 lin.ft. curb and gutter, and 12,000 lin.ft. sidewalk, 4 ft. wide. T. H. Humpheries, Logan, engr.

Utah, Moroni—Until Aug. 1, by City Council building 11,500 lin.ft. sidewalk, 4 ft. wide, in sidewalk paving Dist. No. 2. J. L. Bench, Fairview, engr.

Utah, Salt Lake City—Until Aug. 1, by City Com. paving Mohrland Pl. involving 8000 sq.yd. 2 in. bituminous concrete on 6 in. concrete base. About $27,000. S. Q. Cannon, city engr.

Utah, Salt Lake City—Until Aug. 5, by City Com. paving 17th St. from State St. to 5th St., E., 2 in. bituminous concrete on 7 in. concrete base. About $47,000. S. Q. Cannon, city engr.

Utah, Salt Lake City—Until Sept. 1, by City Com. paving 15th St. E. from 13th to 17th Sts., involving 10,000 sq.yd. 2 in. bituminous concrete. About $46,000. S. Q. Cannon, city engr.

Utah, Salt Lake City—Until Sept. 1, by City Comn., paving various streets in Dist. 31, involving 11,000 sq.yd. of rein.-con. 7 in. thick, cost $45,000; also Denver St., from 9th St. to Harvard St., involving 5300 sq. yd. bituminous concrete, 2 in. thick, and 5300 sq.yd. concrete base, 4 in. thick, $23,000. S. Q. Cannon, city engr.

Wash., Seattle—Until Aug. 4, by Comrs. King Co., laying either 1 course concrete or brick pavement on 3.19 mi. Sylvester Rd., 16 ft. wide. About $80,000. Work involves 29,675 sq.yd. concrete or brick and 4900 cu.yd. earth excav. S. J. Humes, engr.

Cal., Holtville—Until Aug. 13, by City Trustees, improving Dist. No. 1, comprising 5th, 6th, Olive, Palm, Holt Sts., et al, involving 252,000 sq.ft. 4 in. concrete paving with 1½ in. Warrenite surface, cement curbs, gutters, etc. H. J. Burk, Holtville, engr. Noted June 5.

Que., St. Malachie D'Ormstown—Until Aug. 1, by Dept. Highways, Quebec, building 5 mi. Provincial Highway, macadam. About $20,000.

Que., St. Scholastique—Town receiving bids macadamizing about 2½ mi. Bay de la cote de Anges Rd., 30 ft. wide. J. E. Quelette, St. Scholastique, engr.

Ont., St. Jacobs—Town receiving bids laying 40,760 sq.yd. 7 in. concrete pavement. L. S. Lichty, Kitchener, engr.

Ont., Welland—Until July 28, by Welland Co., building road between Ridgeway and Crystal Beach, waterbound macadam. About $22,000. A. Ridgeway, co. engr.

Ont., Wellesley—Town receiving bids laying 21,000 sq.ft. 8 in. concrete pavement. L. S. Lichty, Kitchener, engr.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★Mass., Whitinsville—City let contract surfacing Church St., trap rock and asphalt, Northbridge Twp., to R. H. Newell Co., South Main St., Uxbridge, $29,546.

★Rhode Island—State Highway Comn., State House, Providence, let contracts paving 3930 ft. Warwick Ave., Cranston Twp., to W. V. Polleys & Co., Turks Head Bldg., Providence, $18,672; 3170 ft. Centerville Rd., Warwick Twp., to Lane Constr. Co., 37 Colony St., Meriden, Conn., $50,459; 5200 ft. Farnum Pike, Smithfield Twp. and 11,080 ft. West Shore Rd., Warwick Twp., to A. D. Bridges & Son, Hazardville, Conn., $15,971 and $24,351 respectively. Noted July 17.

★Connecticut — State Highway Comn., Hartford, let contract to J. Arborio, 30 Park St., New Haven, paving 4700 ft. Chesterfield Rd., 7 in. native stone macadam, Montville Twp., cost $18,945; B. N. Beard, 464 Howe Ave., Shelton, 4050 ft. Oxford Rd., gravel, Southbury Twp., $8355; L. J. Wilcox, Norwichton, 4770 ft. Newent Rd., 7 in. native stone macadam, Liston Twp., $21,617; F. B. Hastings, 1200 Wood Ave., Bridgeport, grading 6965 ft. Pembroke Rd., Danbury Twp., $15,562. Noted July 11.

★Conn., East Hartford (Hartford P. O.)—City let contract building macadam roadway on Hillstown Rd., to F. A. Barone & Co., 16 Winchester St., Hartford, $1.48 per lin.ft. for 14 ft. macadam pavement, $1.00 for 10 in. tile, and $15 for catch basins. Noted July 17.

★Conn., Hartford—Bd. Contr. & Supply, Municipal Bldg., let contract paving 6175 ft. Wethersfield Ave., to Miller Sidewalk Co., Hartford. About $10,130. Noted June 19.

N. Y., Albany—Bd. Contr. & Supply received bids paving Western Ave., from Manning Blvd. to city line, from P. W. Mulderry, 5 St. Joseph St., $69,898; W. F. Campion, 372 Bway., $74,368. Noted July 17.

★N. Y., Geneva—Bd. Pub. Wks. let contract paving High, West and Brook Sts., brick, to Oatka Eng. & Constr. Co., Warsaw, $70,196. Noted July 3.

N. Y., Long Island City—M. E. Connolly, pres. Queens Boro., received bids July 14, regulating and repaving with sheet asphalt on (a) Edison Pl., (b) Trowbridge St., with asphalt, (c) Lotus Ave., (d) Silver St., (e) Summerfield St., regulating and laying sidewalks, (f) 109th St., (g) Queens Rd., regulating, grading and curbing, (h) Edison Pl., from Uvalde Asphalt Paving Co., 1 Bway., New York City, (a) $7471, (b) $7185, (c) $16,864, (d) $7675; Sicilian Asphalt Paving Co., 41 Park Row, New York City, (a) $7658, (b) $7425, (c) $15,899, (d) $7818; C. A. Myers, (e) $46,150, (h) $1443; Scott & Kurth, West New Brighton, S. I., (f) $2293, (h) $2699; R. A. Hess, (f) $2291, (h) $3060; Grimm Constr. Co., 460 Herold Ave., Richmond Hill, (f) $2465; Welsh Bros., (g) $11,245; Peace Bros., 20 Main St., (f) $2835, (g) $12,489; Hastings Paving Co., 25 Broad St., New York City, (e) $41,795. Noted July 10.

★N. Y., New York—F. L. Dowling, pres. Manhattan Boro., let contract regulating and repaving with sheet asphalt on concrete base, roadway of Lexington Ave., to Sicilian Asphalt Paving Co., 41 Park Row, $55,000; 110th and 121st Sts. and railroad area, to Uvalde Asphalt Paving Co., 1 Bway., $27,099, $20,475 and $15,720 respectively; 119th St. and West Bway., to Davney Asphalt Paving Co., foot of Quinby Ave., $26,102 and $81,236 respectively; Moore St., to Asphalt Constr. Co., 2197 Madison Ave., $8128. Noted July 3.

★N. Y., New York—Park Bd., Municipal Bldg., let contract paving and repaving with asphaltic mastic, walks of Central and other parks in Manhattan Boro., to Sicilian Asphalt Paving Co., 41 Park Row, $12,265. Noted June 26.

N. Y., New York—F. L. Dowling, pres. Manhattan Boro., received bids July 14, regulating and repaving with granite blocks, (a) Front St., (b) Lexington Ave. from 95th to 97th St., with sheet asphalt, (c) Madison Ave., at intersection of 42nd St., from W. J. Fitzgerald, 547 West 45th St., (a) $3843; P. J. Kearns, (a) $4062, (b) $18,328; Burnside Constr. Co., 270 Burnside Ave., (b) $18,222; Asphalt Constr. Co., 2197 Madison Ave., (b) $18,536; Sicilian Asphalt Paving Co., 41 Park Row, (c) $4632; Uvalde Asphalt Paving Co., 41 Park Row, (c) $4632; Uvalde Asphalt Paving Co., 1 Bway., (c) $4876.

★N. Y., S. I., St. George—C. D. Van Name, pres. Richmond Boro., let contract repairing with bituminous concrete pavement roadways of Richmond Ave. and Old Stone Rd. from Blackford Ave. to Richmond Hill Rd. and Innis St. from Morningstar Rd. to John St., to J. Curren, $24,893. Noted July 10.

New Jersey—State Highway Comn., Broad St. Bank Bldg., Trenton, received bids building State Highway Route No. 8, Sect. 1, Riverdale to Pompton River, Morris Co., from Harrop & Shannon, Inc., 136 Passaic Ave., Westfield, $170,843; Union Bldg. & Constr. Co., Passaic, $192,997; O. G. Julian Eng. & Constr. Co., 20 Nassau St., New York City, $197,833. Noted June 26.

★N. J., Hoboken—City let contract improving Jackson, Jefferson, Grand and Clinton Sts., to W. T. S. Crichfield, 85 Washington St., about $117,000. Noted July 3.

N. J., Jersey City—City received lowest bid repaving roadway of Newark Ave. from Warren to Brunswick Sts., and from Summit to Palisade Aves., sheet asphalt on present concrete foundation, from W. T. S. Crichfield, 85 Washington St., Hoboken, 88 per cent of ($50,000) engineer's estimate. Noted June 19.

★N. J., Woodbridge—Town let contract improving Green St. from Rahway to Amboy Aves., to East Jersey Bridge Co., Inc., Perth Amboy, $21,180. Work involves 1c.-232 sq.yd. 5 x 12 x 2 in. "Hastings" asphalt blocks.

★Pennsylvania—State Highway Dept., Harrisburg, let contracts building roads in following counties:

Lehigh Co., 30,121 lin.ft. rein.-con. and brick, Route No. 163, to J. F. Shanley, 605 Lincoln Bldg., Phila., $239,612;

Luzerne Co., 22,357 lin.ft. rein.-con. and brick, Route No. 177, to Hamilton-Kapnek Constr. Co., 1363 Ridge Ave., Phila., $163,620;

Bradford Co., 45,051 lin.ft. rein.-con. or bituminous surface course, Routes Nos. 212 and 287, to Towanda Constr. Co., New Albany, $434,985;

Somerset Co., 10,554 lin.ft. rein.-con. and Hillside vitr. brick, Route No. 51, to B. J. Lynch Co., Meyersdale, $92,905;

York Co., 32,744 lin.ft. rein.-con and Hillside vitr. brick, Route No. 127, to W. H. Goll, trading as J. Goll & Co., 1529 Filbert St., Phila., $254,388. Noted July 17.

★Pa., Erie—Comrs. Erie Co. let contract building 2 mi. Meadville Rd., concrete, to J. Love & Son, Corry. About $77,000.

★Pa., Hastings—Boro. Council let contract paving 1125 ft. Fourth Ave. and Spangler St., to Susquehanna township line, brick on concrete base, to Lord & Clark, Hastings, $20,487.

★Pa., Parsons (Wilkes-Barre P. O.)—Town let contract paving 9800 sq.yd. Miner Rd., from George Ave. to Miners Mills line, with 5 x 12 x 2 in. "Hastings" asphalt blocks, to O'Brien Bros., Avoca, $22,834.

★Pa., Phila.—Dept. Pub. Wks. let contracts to I. K. Davis & Co., 20th and Spencer Sts., grading uncompleted portion of Front St. from Wingohocking St. to Nicetown Lane, including construction of retaining walls in Front St. and Hunting Park Ave., $98,799; to Estate R. P. Bennis, Chew and Price Sts., grading sections of Claridge, Northumberland, Vincent and Tabor Sts. and furnishing and placing 100 lin. ft. 15 in. vitr. clay pipe and 250 lin.ft. 12 in. c.i. pipe, etc., $7616; to Eastern Paving Co., Colonial Trust Bldg., paving with asphalt and vitr. block gutters 8th St. from Wyoming Ave., to Louden St., $5548 and 10th St. from Wyoming to Louden Sts., $5745; to Barber Asphalt Paving Co., 239 North 30th St., building footways on Parkway between 18th and 20th Sts., $7200; to A. A. Pastors, 6028 Greenway Ave., building drains on 64th St. and Dicks Ave., $1135 and to G. F. Dobbins, 4200 Chester Ave., for painting Baltimore Ave. Bridge over Cobbs Creek, $1080.

Streets and Roads (Continued)

Pa., Pittsburgh—Allegheny Co. received bids building (a) 2000 ft. Troy Hill Rd., Reserve Twp., Telford macadam, 16 ft. wide, involving 3500 sq.yd. pavement and 4000 cu.yd. earth excav.; (b) 2¼ mi. Elizabeth Rd., Forward Twp., rein.-con. or asphaltic concrete surface, 18 ft. wide, 24,000 sq.yd. asphaltic concrete, 2000 cu.yd. excav., 5500 sq.yd. concrete or Telford foundation, 19,150 sq.yd. scarified surface and 4000 ft. 6 in. vitr. pipe drain; (c) 5280 ft. Thompson Run Extension No. 2, Ross and McCandless Twps., bituminous macadam, 16 ft. wide, 11,050 sq.yd. bituminous macadam, 16,100 cu.yd. excav., 3800 ft. 6 in. tile drain from T. Cronin Co., South 17th and Muriel Sts., (a) $15,358, (c) $58,9x5, M. O'Herron Co., South 1st and McKean Sts., (a) $17,281, (c) $63,875; T. McNally Constr. Co., Oliver Bldg., (a) $17,907; Columbus Asphalt Paving Co., Pittsburgh, (b) $73,251; Booth & Flynn, Ltd., 1942 Forbes St., (b) $80,686; Hillside Stone Co., Farmers' Bank Bldg., (c) $65,698. Noted June 19 and July 10.

★**Pa., Pittsburgh**—Allegheny Co. let contract building 8000 ft. Bakerstown and Warrensdale Rds., Pine Twp., 18 ft. wide, rein.-con., to T. Cronin Co., South 17th and Muriel Sts., $84,163; also for 17,000 ft. Butler Pike Rd., Shaler and Hampton Twps., 20 ft. wide, asphaltic concrete and brick, to McDonald, McNeil Co., Pittsburgh, $161,857. Noted July 3.

★**Md., Baltimore**—Bd. Awards, City Hall, let contract grading, curbing and paving Gwynns Falls Parkway, Alameda Ave. and Garrison Blvd., involving 24,580 sq. yd. sheet asphalt, 13,940 lin.ft. concrete curb, 1050 sq.yd. vitr. brick gutter and 22,000 cu.yd. grading, to Baltimore Asphalt Block and Tile Co., Monroe and Lorman Sts., $95,295.

★**W. Va., Charleston**—Comrs. Kanawha Co. will surface 2 mi. Kanawha City Rd., 15 ft. wide, 2 in. asphaltic concrete. About $17,000. Work will be done by county forces.

★**W. Va., Clarksburg**—Harrison Co. let contract grading 1½ mi. Sycamordale Rd. (Class "A"), to J. N. Coaltrane, Haywood. About $16,000.

★**W. Va., Clarksburg**—Harrison Co. let contract grading 1½ mi. Haywood Rd., to Furgoson & Halbert, Shinnston, about $15,-000.

★**W. Va., Fayetteville**—Fayette Co. let contract grading 3 mi. Fayette-Lansing Rd., 20 ft. wide, involving 45,000 cu.yd. excav., to Shipe & Thompson, St. Albans. About $36,000. Noted July 10.

★**W. Va., Harrisville**—Comrs. Ritchie Co. let contract paving 5 mi. Northwestern Pike, Federal Aid Project No. 29, to T. Pretio Co., Morgantown, $159,162. Noted June 19.

★**W. Va., Harrisville**—Ritchie Co. let contract building 5 mi. Ellenboro-Pennsboro Rd., 16 ft. wide, vitr. brick, to T. Pietro Co., Morgantown, $158,654.

★**W. Va., Hinton**—Comrs. Summers Co. Pipestem Dist. let contract building 5 mi. Tallery Mountain Rd. to T. Toroles, Princeton, $48,990. Work includes 65,000 cu.yd. excav., 130 cu.yd. Class "A" concrete, 100 cu.yd. Class "B" concrete, 100 cu.yd. cement rubble masonry, 100 cu.yd. dry rubble masonry, etc. Noted June 26.

★**W. Va., Kingwood**—Comrs. Preston Co. will grade and hard surface 2.56 mi. Morgantown-Kingwood Pike, 10 ft. wide. About $30,000. Work to be done by day labor. Noted May 8.

★**W. Va., Marlinton**—Comrs. Pocahontas Co. will build 2.25 mi. Marlinsbottom Turnpike, surfacing 16 ft., grading 26 ft. wide, involving 22,110 sq.yd. waterbound macadam (using local limestone). Work will be done by county forces. Noted May 22.

★**N. C., Durham**—Comrs. Durham Co. let contract improving 1.8 mi. Durham-Roxboro Rd., 18 ft. wide, warrenite wearing surface on 5 in. concrete base, to R. G. Lassiter, Oxford. About $56,000.

★**N. C., Kinston**—Lenoir Co. let contract paving Central Highway, sheet asphalt, to West Constr. Co., Volunteer Life Bldg., Chattanooga, Tenn., $53,850. Noted June 19.

★**Ga., Douglas**—City let contract paving, curbing and building drainage structures on 22,000 sq.yd. various streets, to McDowell Constr. Co., Jacksonville, Fla. About $49,500. Noted June 26.

★**Ga., Macon**—Bibb Co. let contract paving and building drainage structures, etc., on 8.7 mi. Forsyth Rd., 18 ft. wide, to Brooks-Calloway Co., Healy Bldg., Atlanta, $307,536. Noted June 26.

★**Fla., Bunnell**—Comrs. Flagler Co. let contract grading, draining, hard surfacing and building bridges on 26 mi. road, in Shell Bluff Special Rd. and Bridge Dist., to C. A. Smith, Bunnell.

★**Ala., Athens**—Comrs. Limestone Co. let contract grading, draining and resurfacing with gravel 9.97 mi. Bee Line Highway, State Trunk Rd. No. 1, between Decatur and Tennessee State line, to S. H. Brown, Jasper, $53,185. Noted June 12.

Ohio—State Highway Comn., Columbus, received bids July 18, building roads in following counties:

Butler Co., Sect. "B" Oxford-Millville Rd., 4.05 mi., grading, constructing bridges and culverts and paving with brick, from B. F. Bolin, Columbus, $155,416; Andrews Asphalt Paving Co., Rentschler Bldg., Hamilton, bitoslag, $147,892, bituminous concrete, $135,588, sheet asphalt, $150,331.

Sect. "C-2" Oxford-Millville Rd., 3.60 mi., grading, constructing bridges and culverts, and paving with brick, B. F. Bolin, Columbus, $142,634; Andrews Asphalt Paving Co., Rentschler Bldg., Hamilton, bitoslag, $135,763, bituminous concrete, $125,-074, sheet asphalt, $137,976.

Sect. "A" Hamilton-Middletown Rd., 1.36 mi., constructing gravel shoulders and paving bituminous macadam, J. L. Garver, Hamilton, $13,396; paving with bituminous concrete, Andrews Asphalt Paving Co., Rentschler Bldg., Hamilton, $23,827.

Coshocton Co., Sect. "C-2" Newark-Coshocton Rd., 2.04 mi., grading, constructing bridges and culverts and paving with brick, Dunsweiler Constr. Co., Zanesville, $76,585; paving with concrete, John Hall, Coshocton, $66,396.

Franklin Co., Sect. "M" Columbus-Sandusky Rd., .72 mi., grading and paving with brick on concrete base, A. W. Burns Co., 55 East State St., Columbus, $27,307; R. A. Shafer Co., Findlay, $29,060.

Sect. "O" Columbus-Sandusky Rd., .76 mi., grading and paving with brick on concrete base, A. W. Burns Co., 55 East State St., Columbus, $28,390; R. A. Shafer Co., Findlay, $30,439.

Geauga Co., Sects. "T," "U" and "V-1" Chagrin Falls-Greenville Rd., 8.17 mi., grading, constructing bridges and culverts and paving with concrete, W. S. Newhall Co., Citizens' Bldg., Cleveland, $305,174.

Miami Co., Sect. "D" Dayton-Covington Rd., grading, constructing bridges and culverts and paving with rein.-con., Swank Engineering Co., Dayton, $96,509; C. L. Straw, Paulding & W. Huber, Tippecanoe City, each, $98,994.

Sect. "H" Piqua-Urbana Rd., .53 mi., grading, constructing bridges and culverts and paving with rein.-con., Burke Bros. Constr. Co., Anderson, Ind., $15,661. Noted July 10.

★**Ohio**—State Highway Comn., Columbus, let contract building roads in following counties:

Columbiana Co., Sect. "E" Cleveland-East Liverpool Rd., 3 mi., grading, constructing bridges and culverts and paving with waterbound macadam, to Campbell Bros., Stambaugh Bldg., Youngstown, $81,-838.

Defiance Co., Sect. "F" Hicksville-Defiance Rd., 2.04 mi., grading, constructing bridges and culverts and paving with rein.-con., to Turritan & Figley, Evansport, $53,-299.

Delaware Co., Sect. "L" Columbus-Sandusky Rd., 6.18 mi., grading, constructing bridges and culverts and paving with concrete to H. P. Streicher & Co., 319 Terminal Bldg., Toledo, $191,434.

Fayette Co., Sect. "B" Columbus-Washington C. H. Rd., 3.68 mi., grading, constructing bridges and culverts and paving with bituminous macadam, to Walter Huber, Tippecanoe City, $80,264.

Sect. "C" Columbus-Washington C. H. Rd., 4.11 mi., grading, constructing bridges and culverts and paving with bituminous macadam, to Neff & Rader, Circleville, $94,-512.

Guernsey Co., Sect. "I-1" Cambridge-Caldwell Rd., 1.26 mi., grading, constructing bridges and culverts and paving with concrete, to W. C. Peters, Marietta, $38,-064.

Sect. "I-2" Cambridge-Caldwell Rd., 3.13 mi., grading, constructing bridges and culverts and paving with concrete, to W. C. Peters, Marietta, $114,233.

Hancock Co., Sect. "D" Lima-Sandusky Rd., 6.05 mi., grading, constructing bridges and culverts and paving with asphaltic concrete to Johnson Constr. Co., 38 South Dearborn St., Chicago, $193,896.

Lake Co., Sect. "J" Chardon-Madison Rd., 2.33 mi., grading, constructing bridges and culverts and paving with rein.-con., to Elas, Bates & Keiner, Madison, $58,514.

Logan Co., Sect. "C" Bellefontaine-Lima Rd., 1.27 mi., grading, constructing bridges and culverts and paving with rein.-con., to McHugh Bros., Springfield, $36,846.

Sect. "E" Bellefontaine-Wapakoneta Rd., 3.22 mi., grading, constructing bridges and culverts and paving with rein.-con., to Lewis & Copeland, Lima, $95,076.

Sect. "E" Bellefontaine-Wapakoneta Rd., 3.05 mi., grading, constructing bridges and culverts and paving with rein.-con., to Lewis & Copeland, Lima, $117,009.

Sect. "G" Bellefontaine-Wapakoneta Rd., 3.69 mi., grading, constructing bridges and culverts and paving with rein.-con., to C. F. Smith, Dayton, $113,267.

Madison Co., Sect. "D" National Rd., 2.47 mi., grading, constructing bridges and culverts and paving with bituminous macadam, to Billiter & Connell, Dayton, $47,-517.

Sect. "A-2" Columbus-Cincinnati Rd., 5.92 mi., grading, constructing bridges and culverts and paving with bituminous macadam, to Billiter & Connell, Dayton, $146,-856.

Montgomery Co., Sect. "N" Dayton-Indianapolis Rd., 2.67 mi., grading, constructing bridges and culverts and paving with rein.-con., to C. Hoolihan, Dayton, $92,572.

Sect. "N-2" Dayton-Indianapolis Rd., .38 mi., grading and paving with rein.-con., to C. Hoolihan, Dayton, $23,666.

Seneca Co., Sect. "Q" Lima-Sandusky Rd., 1.22 mi., grading, constructing bridges and culverts and paving with bituminous macadam, to Stone & Berl, Lima, $13,996. Noted July 17.

★**O., Columbus**—Franklin Co. let contract grading, building drainage structures and paving with macadam, 10.61 mi. Alkire Rd., 18 ft. wide, to Harness-Renick Co., Williamsport, $165,611.

★**Mich., Detroit**—City let contracts to Detroit Asphalt Paving Co., 20 McGraw Bldg., paving Kilick Ave., cost $20,000; Konkel Ave., $17,181; Kopernik Ave., $30,174; Canfield Ave., $6223; Fairview Ave., $25,091; Griffin Ave., $13,367; Gladstone Ave., $13,-342; Hurlbut Ave., $35,330; Harper Ave., $25,955; Platt St., $6981. Noted July 17.

Mich., Detroit—City received only bid paving 10th St from Military to Water Sts., 30 ft. wide, rein.-con., from J. H. Baker & Sons, Port Huron, $81,448. Work involves 31,700 sq.yd. paving, at $1.95 per sq.yd. 15,850 cu.yd. excav., $0.50, 500 lin.ft. 8 in. sewer, $0.85, 300 lin.ft. new concrete curb, $0.65, 800 lin.ft. old curb to reset, $0.25, etc.

Mich., Detroit—City received bids from J. H. Baker & Sons, Port Huron, paving 22nd St. from Griswold to Railroad Sts., 28 ft. wide, and Railroad St., entire length, 24 ft. wide, concrete, $28,407; Griswold St. from Military St. to railroad tracks east of 4th St., 26 ft. wide, brick on concrete foundation, $6336; Stone St. from State to Garfield Sts., 30 ft. wide, concrete, $21,-797; 10th Ave. from River St. to Pine Grove Ave., 30 ft. wide, concrete, $40,815; Park St. from Huron Ave. to Erie St., 30 ft. wide, concrete, $6849. Work involves 15,890 cu.yd. excav., 1250 lin.ft. 8 in. sewer, 5700 lin.ft. side drain, 6500 lin.ft. new curb, 35,945 sq.yd. paving and 27,080 sq.yd. reinforcing, etc.

Mich., Detroit—City received bids paving following alleys with 1 course concrete. (a) No. 1037, (b) No. 1038, (c) No. 1039, (d) No. 1040, (e) No. 1041, (f) No. 1042, (g) No. 1043, (h) No. 1044, (i) No. 1045, from T. E. Currie, 20 McGraw Bldg., (a) $7295; R. J. Powelson Co., 1577 Iriquois Ave., (a) $7752, (b) $5686, (c) $5193, (d) $3842, (e) $2157, (f) $5320, (g) $3479, (h) $3312, (i) $3057; Otis Cement Constr. Co., Hammond Bldg., (a) $7711, (b) $5686, (c) $5193, (d) $3912, (e) $2063, (f) $5287, (g) $3389, (h) $3220, (i) $2936; Lennane & McIlvenna, 1205 Book Bldg., (b) $5671, (c) $5043, (d) $4018, (f) $5539; Talbot Co., 400 Penobscot Bldg., (e) $2109, (g) $3563, (h) $3231, (i) $3222. Noted July 17.

Mich., Port Huron—City received bid grading, draining, curbing and paving Lapeer Ave. from 16th to 24th Sts., et al., 28 ft. wide, brick on concrete foundation, from J. H. Baker & Sons on 6 in. concrete base, 5200 lin.ft. concrete curbing, 5200 lin. ft. side drain, 4000 cu.yd. excav. and 680 cu.yd. earth fill. Former contract rescinded. Noted Apr. 3.

★**Ill., Springfield**—Sangamon Co. let contract building 8 mi. concrete road, 18 ft. wide, to H. W. Horst Co., Horst Bldg., Rock Island. About $200,000.

★**Ill., Vandalia**—Fayette Co. let contract building 8 mi. concrete roads, 18 ft. wide, to H. W. Horst Co., Horst Bldg., Rock Island. About $225,000.

Streets and Roads (Continued)

★**Wisconsin**—State Highway Comn., Madison, let contracts to E. L. Peterson, 6014 Oakes Ave., Superior, grading Black River Rd., Superior Twp., Douglas Co., and removing dam at Black River Bridge, cost $10,818; H. Schroetter, Jim Falls, grading, Sand Creek Colfax Rd., Sand Creek Twp., $320, Wheeler-Prairie Farm Rd., Hay River Twp., $1590, Menominee-Colfax Rd., Red Cedar Twp., $916; Oftsie & Mulheron, Spring Valley, grading Menominee-Hudson Rd., Menominee Twp., $2650, Menominee-Hudson Rd., Lucas Twp., $1048; I. L. Harmon, Boyceville, grading Boyceville-Menominee Rd., Sherman Twp., $2262, Boyceville-Menominee Rd., Stanton Twp., $1289, Boyceville-Menominee Rd., Tiffany Twp., $2321; all in Dunn Co. Noted June 12.

★**Wisconsin**—State Highway Comn., Madison, let contract improving Grand Rapids-Plover Rd., Federal Aid Project No. 26, Wood Co., to F. Bossert, Grand Rapids, 7951 cu.yd. earth excav., $.50 per cu.yd., 180 cu.yd. borrow excav., $.50 cu.yd., 9387 sq.yd. concrete surfacing, $1.98 sq.yd., 60 cu.yd. concrete culverts, $20 cu.yd., etc., total cost, $59,232; Spooner-Rice Lake Rd., Federal Aid Project No. 90, Washburn Co., to A. E. Kennedy & Co., Shell Lake, .82 acres clearing and grubbing, $80 per acre, 40 cu.yd. earth excav., $.49 cu.yd., 47 cu.yd. borrow excav., $1 cu.yd., etc., total cost, $24,996.

★**Wis., Plymouth**—City let contract grading and paving 2.3 mi. Reed and Selma Sts., 18-20 ft. wide, to Murphy Constr. Co., 8th St., Manitowoc, $67,806. Noted July 3.

Wis., Racine—City received only bid paving 17th St., involving 10,700 sq.yd. pavement and 5770 lin.ft. curb and gutter, from J. Cape & Sons Co., Water St., barr block, $3.44 per sq.yd., vertical fibre brick, $3.19 per sq.yd., curb and gutter, $.82 per lin.ft., total cost $40,000; Austin Ave., from Western Impvt. Co., Racine, 2000 sq.yd asphaltic pavement, $2.50 per sq.yd. and 1250 ft. curb and gutter, $.85 per ft. Noted Feb. 20.

★**Minn., Duluth**—City let contracts paving 466 ft. 3rd St., involving 25,818 sq.yd. asphalt, 14,936 lin.ft. concrete curbing, 6830 cu.yd. earth excav. and 3156 ft. 12-19 in. sewer pipe, to D. H. Clough & Co., 914 East 1st St., $136,737; 2535 ft. House St., 2688 sq.yd. concrete, 2250 cu.yd. earth excav., 1535 cu.yd. tile pipe and 2738 ft. 3 in. drain tile, Hedberg & Olson, 313 21st Ave., W. Noted July 3.

★**Minn., North Mankato**—Village let contract building sanitary sewerage system, involving 2500 ft. mains, 2 pumping stations, etc., to F. A. Webster, St. Paul, about $51,000. Noted June 19.

★**Minn., Rochester**—Comrs. Olmstead Co. let contract building 7 mi. Job No. 1908, State Rd. No. 2, 24 ft. wide, to A. Guthrie & Co., 366 Jackson St., St. Paul, $52,056. Noted July 3.

★**Minn., St. Paul**—City let contract paving Como Ave. between Rice St. and Great Northern Bridge, to Brooks Bros., 1923 University Ave., $80,734. Noted July 10.

★**Kan., Burlington**—City let contract paving various streets, involving 58,069 sq.yd. vertical fibre brick and asphaltic concrete, to J. K. Shinn, Burlington. About $225,000. Noted June 26.

★**Kan., Ellsworth**—City let contract paving Douglas St., involving 13,885 sq.yd. 3 in. vertical fibre brick, to R. M. Ammerman, Salina, $54,509. Noted June 26.

★**Kan., Kansas City**—Wyandotte Co. let contract building 2½ mi. Fort to Fort Highway, 18 ft. wide, to A. Turner, Rosedale. About $68,611.

★**Kan., Lawrence**—Douglas Co. let contract building Sect. A of Fort to Fort Rd., 18 ft. wide, vertical fibre paving and concrete curbing, to Cook-O'Brien Constr. Co., 308 Ry. Exch. Bldg., Kansas City, $117,051; Sect. G, to J. O. Patterson Co., 1008 Walnut St., Kansas City, $206,391. Noted June 19.

★**Kan., Marysville**—City let contract paving various streets, involving 70,000 sq.yds. vertical fibre brick, 28,700 lin.ft. curbing and guttering and 15,000 cu.yd. grading, to Metropolitan Paving Co., 114 South 5th St., St. Joseph, Mo. About $309,000. Noted June 26.

★**Neb., Kearney**—Comrs. Buffalo Co. let contract grading 20.4 mi. Kearney-Pleasanton Rd., Project No. 73, to A. S. Cook, Ottawa, Kan., $.37 per cu.yd.; total cost, $64,000. Noted June 12.

★**Montana**—State Highway Comn., Helena, let contract improving 6.13 mi. Grass Range-Roundup Rd., Sect. No. 1, to O'Neil & McIsaac, Lewistown, $18,881. Noted Jan. 23.

★**Mont., Bozeman**—City let contract to Warren Constr. Co., Journal Bldg., Portland, Ore., paving 5th and 7th Aves., $21,299; College St. from 8th to 11th Aves., $12,902; Lindley Pl. and Olive St., $13,485; 6th Ave. from Story to College Sts., $15,774; Koch St., from 3rd to 6th Sts., and 7th Ave. from Dickerson to College Sts., $17,418, all bitulithic pavement. Noted June 5 and 19 and July 10.

★**Mo., St. Louis**—City let contracts to Granite Bituminous Co., Ry. Exch. Bldg., paving 3490 ft. Arlington St., bituminous concrete, granite curbing, cost $51,229; 2300 ft. Emerson St., bitulithic, granite curbing, $40,093; 1170 lin.ft. Sherman Pl., bitulithic, concrete curbing, $11,081; 1325 lin.ft. Terry Ave., bitulithic, concrete curbing, $18,226; 1710 lin.ft. North and South Reber and Reber Pl., bitulithic, granite curbing, $33,460; 480 lin.ft. Portis Ave., bitulithic, granite curbing, $6815.

★**Mo., St. Louis**—City let contracts paving various alleys to T. C. Cavanaugh, 6426 Oakland Ave., cost $13,737; F. A. Stiers, 4512 Enright St., $12,107; J. F. McMahon Constr. Co., Title Guarantee Bldg., $9129; Eyermann Constr. Co., 1216 South Grand St., $23,777; J. E. Parkinson, $3135.

★**Tex., Fairfield**—Freestone Co. let contract gravel surfacing 10.04 mi. Highway No. 7 from Limestone Co. line to Teague, 15 ft. wide, to McElwrath & Rogers, Corsicana, $74,283. Noted July 17.

Tex., Montague—Montague Co. received bids gravel surfacing 9.84 mi. Meridian Highway from Bowie to west county line, from Cobb & Kenkins, Dallas, $47,494, Harris & Alexander, Dallas, $53,797, Womack Constr. Co., Dallas, $54,746. Noted July 10.

★**Tex., Seymour**—Baylor Co. let contract grading 12.35 mi. Highway No. 30 from point 3 mi. southwest of Seymour to west county line, 24 ft. wide, to A. A. Harrison, Seymour, $13,997. Noted July 17.

★**Washington**—State Highway Bd., Olympia, let contracts paving with concrete 3 mi. Hoquiam Northwest Rd., to Grays Harbor Constr. Co., Hoquiam, $76,954; 3.3 mi. Camas-Ellisworth Rd., to Pacific Bridge Co. foot of Salmon St., Portland, Ore., $86,572; 3 mi. Parker-Donald Sect., Inland Empire Highway, Yakima Co., to A. L. Clarke & Co., Yakima, $95,889; 4.2 mi. Elma-Satsop Rd., to Aberdeen Paving Co., Aberdeen, $118,690. Noted July 3.

★**Washington** — State Highway Bd., Olympia, let contract building 6.4 mi. Sunset Highway, from Renton to Issaquah, King Co., to Kaiser Paving Co., 923 Joshua Green Bldg., Seattle, cost $181,175; 3.2 mi. Sunset Highway, from Waterville west, Douglas Co., to O. H. Mohr Constr. Co., Waterville, $19,737; 3.6 mi. Pacific Highway from Bellingham south, Whatcom Co., to J. W. Hoover & Co., Everett, $106,075. Noted June 26.

★**Wash., Asotin**—Anatone Highway Dist. let contract building 14 mi. highway beginning at Anatone and extending to top of Asotin grade, to G. L. Stickler, Tacoma, $7000 to $8000 per mi.

★**Wash., Centralia**—City let contract paving 17 blocks, to Allred, James & Hendricks and Albers & Son, $36,747. Noted July 17.

★**Wash., Seattle**—Bd. Pub. Wks. let contract paving 3 mi. Thorndyke Ave. et al., 17 ft. wide, to Kaiser Paving Co., Green Bldg., $134,358. Work involves 25,050 sq.yd. concrete, 11,800 lin.ft. concrete curbing and guttering, 12,700 cu.yd. earth excav., 5900 cu.yd. subgrade and 3746 lin.ft. clay sewer pipe.

★**Wash., Aberdeen**—City Council let contract paving and building concrete walks on 7 blocks of Wishkah St. from K to Washington Sts., 48 ft. pavement and 8 ft. walks, to Aberdeen Paving Co., Aberdeen, $52,517. Noted June 12.

★**Oregon**—State Highway Comn., Portland, let contracts grading and draining ½ mi. Senfert Sect., Columbia River Highway, Wasco Co., to United Contg. Co., North West Bank Bldg., Portland, $19,355; also 13.1 mi. Salem-Dallas Sect., Pacific Highway, Polk Co., to O. Huber, Sherlock Bldg., Portland, $320,742. Noted July 10.

Oregon—State Highway Comn., Portland, received bids July 8, paving 10.5 mi. Westport-Clatskanie Sect., Columbia River Highway, from Warren Constr. Co., Journal Bldg., Portland, bitulithic and concrete pipe, $234,958, Pacific Bridge Co., foot of Salmon St., Portland, bithulithic and concrete pipe, $242,970; also grading 6.3 mi. Oregon City-Oswego Rd., Clackamas Co., from Palmer & Young, 143 West Park St., Portland, concrete pipe, $43,072, iron pipe, $43,090; Lyons & Son, concrete or iron pipe, $48,072; C. J. Cook, concrete pipe, $49,927; grading 12 mi. Unit No. 3, John Day Highway, Grant and Wheeler Counties, from O. Huber, Sherlock Bldg., Portland, $165,731. Noted July 10.

★**Oregon**—State Highway Comn., Portland, let contracts grading 13 mi. Unit No. 1, Fossil-Dayville Sect. John Day Highway, Wheeler Co., to Copenhagen Bros., Henry Bldg., $183,570; 16.7 mi. Burns-Lawen Sect. Central Oregon Highway, Harney Co., to Pacific Bridge Co., foot of Salmon St., Portland, $126,567; 4.4 mi. Canyon Sect. Baker-Cornucopia Highway, Baker Co., to Morrison-Knudson, Boise, Idaho, $52,785. Noted July 10.

Oregon—State Highway Comn., Portland, received bids paving with bitulithic (a) 6.1 mi. Unit No. 1 and (b) 6.1 mi. Unit No. 2, Eungene-Junction City Rd. section Pacific Highway, Lane Co., from Clarke & Henry, Portland, (a) $113,312, (b) $122,192; Warren Constr. Co., Journal Bldg., Portland, (a) $126,285, (b) $125,413. R. O. B. shoulders, $130,613, broken stone shoulders. Noted July 10.

Oregon—State Highway Comn., Portland, received bids July 8, paving (a) 9.5 mi. Rock Creek-Westport Sect., (b) 8 mi. Svensen-Rock Creek Sect., Columbia River Highway, Clatsop Co., from Pacific Bridge Co., foot of Salmon St., Portland, (a) $197,151 (b) $180,590. Warren Constr. Co., Journal Bldg., Portland, (a) $192,356, (b) $177,605. Noted July 10.

★**Oregon**—State Highway Comn., Portland, let contract grading and paving 3.4 mi. Canyon-Beaverton County Line Rd., Washington Co., to Warren Constr. Co., Journal Bldg., $103,099; 2.5 mi. Stage Rd. Pass Sect. Pacific Highway, to Joplin & Eldon, Portland, $16,425. Noted July 10.

Ore., Portland—City received bids paving (a) portions of Romona Ave., (b) 77th St., (c) East 61st St., (d) East 72nd St., (e) Sherman St., (f) East Madison St., (g) East 53rd St., from Warren Constr. Co., Journal Bldg., (a) $67,364, (c) $11,960, (e) $2054, (f) $1393, (g) $1951; Cochran Bros., Portland, (a) $74,324, (e) $1998, (g) $1019; Botrick & Cline, Portland, (b) $15,982; S. Brown, Portland, (d) $7173, (f) $1050; S. Simonsen, Portland, (d) $7399. Noted July 10.

★**California**—State Highway Comn., Forum Bldg., Sacramento, let contracts building 2.8 mi. road between Freshwater Lagoon and Orick, Sect. J, Route 1, Div. 1, Humboldt Co., to J. Wilmshurst, San Francisco; 7.9 mi. road between Last Chance Slide and Cushion Creek, Sect. B, Route 1, Div. 1, Del Norte Co., to Palmer & McBride, Hooker & Lent Bldg., San Francisco. Noted June 5.

★**Cal., Eureka**—City let contract curbing, paving and building sidewalks and sewers in Bway. and 4th St., to Federal Constr. Co., Call Bldg., San Francisco, $312,239. Work involves 16,361 lin.ft. each of concrete curbing and sidewalk, 685,393 sq.ft. 2 in. bitulithic pavement, 76,177 sq.yd. 5 in. concrete base, 6354 lin.ft. terra cotta and 151 lin.ft. concrete sewer and 75 lin.ft. 24 in. concrete pipe.

★**Cal., Exeter**—City let contract grading, paving, curbing, guttering and building sidewalks and catchbasins in 15 blocks F St., et al., to Federal Constr. Co., Call Bldg., San Francisco, $90,000. Work involves 5950 lin.ft. concrete curbing, 6500 lin.ft. concrete gutter, 11,725 sq.ft. concrete sidewalk, 1302 sq.yd. 1½ in. asphalt on 4 in. concrete base. Noted June 19.

Cal., Los Angeles—Bd. Pub. Wks. received bids building 4½ mi. highway from here to San Pedro Harbor, known as Municipal Impvt. Dist. No. 7, 20 ft. wide, from P. L. Ferry, 614 Acacia St., Glendale, $159,931; Tyron & Brain, Merchants Trust Bldg., $159,930. Noted Mar. 27.

Streets and Roads (Continued)

★**Cal., Martinez**—Bd. Supervs. Contra Costa Co. let contract paving extension of 3rd St., east from Pittsburgh, to G. Cushing, 2005 Roosevelt St., Richmond, $11,456.

★**Cal., Oxnard**—City let contract to Fairchild Gilmore-Wilton Co., Pacific Electric Bldg., Los Angeles, for 8500 lin.ft. 4-in. concrete paving, with 1½ in. asphalt concrete surface, 60 ft. wide; 9000 lin.ft. 4 in. bituminous base with 1½ in. asphalt concrete surface, 30 ft. wide; concrete curbs and gutters on both sides of streets and 7 corrugated iron and concrete culverts. About $250,000.

★**Cal., Reedley**—City let contract grading, paving, curbing, guttering and building sidewalk on G and 11th Sts., et al., to Federal Constr. Co., Call Bldg., San Francisco, $204,300. Work involves 18,653 lin. ft. each of concrete curb and gutter, 12,000 cu.yd. excav., 3750 ft. arch culverts, 556,250 sq.ft. 1½ in. bitulithic pavement, 123,000 sq.ft. shoulders, 61,805 sq.yd. 5 in. concrete base, and 27 ft. rein.-con. bridge and extensions to 3 bridgs. Noted June 12.

Cal., Riverside—Comrs. Riverside Co. rejected bids improving Archibald Ave. and Cloverdale Rd., involving 543 cu.yd. grading, 3367 lin.ft. shaping roadbed, 831 cu.yd. concrete paving with alternate for 53,878 sq.ft. oil macadam paving; also improving Ontario Ave., 587 cu.yd. grading, 1700 lin. ft. shaping, 419 cu.yd. concrete paving with alternate for 27,300 sq.ft. oil macadam paving. Work will be done by day labor.

★**Cal., Salinas**—City Council let contract to Granite Rock Co., Watsonville, paving Market St., $15,754, Soledad St., $10,999, Pajaro St., $8078 and Cayuga St., $7681, to W. A. Montanville, Arroyo Grande, North Main St., $20,439, California St., $14,306; macadam pavement, concrete curbs and gutters.

★**Cal., San Diego**—A. H. Wright, city clk., let contract improving portions of India, Pierce, California and Taylor Sts., and San Diego Ave., 5194.31 lin.ft. in all, to Fairchild-Gilmore-Wilton Co., 25 14th St., $88,807. Noted July 3.

★**Cal., Sonora**—City Trustees let contract paving several streets, to A. Teichert & Son, Ochner Bldg., Sacramento, $33,846.

★**N. S., Halifax**—City let contract paving portions of 22 streets with bituminous concrete, to Canadian Bituminous Paving Co., Toronto, Ont. About $800,000. Noted July 3.

★**Que., Montreal**—City let contract improving Sherbrooke St., between Hampden and Mayfair Sts., bituminous macadam on concrete base, to Quinlan & Robertson, 260 St. James St. About $85,656.

Que., Ste. Rose—Dept. Highways, Quebec, let contract building 5 mi. Provincial Highway, macadam, to O'Connors, Ltd., 204 St. James, Montreal. About $22,000. Noted Apr. 24.

★**Que., Val Jalbert**—Dept. Highways, Quebec, let contract building 2½ mi. macadam road, here, to Provincial Eng. Co., 83 Craig St., W., Montreal. About $12,000.

★**Ont., Welland**—City let contract building 3 mi. Main and Ontario Rd., waterbound macadam, Crowland Twp., to Somerville & Delworth, $18,544.

★**B. C., Vancouver Island**—Dept. Pub. Wks., Victoria, let contract grading and paving 1 mi. Island Highway from Craigflower Bridge to Parsons Bridge, 16 ft. wide, with concrete, to Palmer Bros., 929 Main St., Vancouver. About $75,000. Noted June 5.

Railways

PROPOSED WORK

Michigan—Detroit, Bay City and Western Ry., Bay City, having surveys made for 40 mi. line to extend steam railway service to Marine City. W. Boyd, ch. engr.

Nova Scotia—Nova Scotia Tramways & Power Co., Halifax, received permission from Pub. Utilities Comn. to issue $2,000,000 gold coupon notes and plans to expend $1,000,000 this year to extend and improve tramway lines.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★**Nova Scotia**—Canadian Natl. Rys., Moncton, N. B., let contract grading 9.13 mi. double track line from Springhill Jct. to Maccan, to McLean & Wheaton, Halifax; 7.57 mi. additional main lines from Truro to Debert, to F. G. Jones, Sydney. Noted July 10.

★**New Brunswick**—Canadian Natl. Rys., Moncton, let contract grading 3.35 mi. double track cut-off at Moncton Yards, to McLean & Wheaton, Halifax, N. S. Noted July 10.

★**Quebec**—Canadian Natl. Rys., Moncton, N. B., let contract for 4 mi. double track diversion between St. Rosalie and Charlotte, to O'Brien & Doheny, 211 McGill St., Montreal. About $57,000. Noted July 10.

Excavation and Dredging

PROPOSED WORK

Mass., Gloucester—Dredging—Harbor & Land Comn., Boston, soon lets contract building dolphin involving 37,000 cu.yd. earth and 300 cu.yd. ledge excav. W. F. Williams, 473 State House, Boston, engr. Noted May 29.

Fla., Miami—Drainage—Comrs. Dade Co. having surveys made by C. E. Lee and C. H. Miller, Goulds, and H. R. Cone, Homestead, for draining 3000 acres east of Goulds.

Miss., Lake Cormorant—Drainage—Lake Cormorant D. D. receives bids in about 2 months for 92 mi. open drainage channels in Tunica and De Soto counties, 12 to 32 ft. base, 8 ft. deep, involving 3,453,400 cu.yd. floating and dryland excav. About $600,000. Morgan Eng. Co., Goodwyn Institute Bldg., Memphis, Tenn., engrs.

Minn., Slayton—Ditches—Comrs. Murray Co. plan to build numerous drainage ditches. P. L. Minder, Slayton, engr.

Utah, Benjamin—Drainage—Benjamin D. D. having surveys made for drainage system of 5000 acres of alkali land. About $150,000. Caldwell & Richards, Vermont Bldg., Salt Lake City, engrs.

Utah., Delta—Drainage—Millard D. D. No. 4 having surveys made for drainage system to comprise about 10,000 acres, involving 600,000 lin.ft. 6-20 in. tile and 175,000 lin.ft. open canal. About $300,000. Caldwell & Richards, Vermont Bldg., Salt Lake City, engrs.

Utah, Hinckley—Drainage—Millard D. D. No. 1 having surveys made for drainage system to comprise about 5000 acres, involving 300,000 lin.ft. 6-18 in. tile, and 87,500 lin.ft. open canal. About $200,000. Caldwell & Richards, Vermont Bldg., Salt Lake City, engrs.

Utah, Ogden—Drainage—Weber Co. D. D. No. 1, having surveys made laying tile and building open channels for draining 1500 acres. About $55,000. Caldwell & Richards, Vermont Bldg., Salt Lake City, engrs.

Utah, Provo—Drainage—Lake Shore North D. D. having surveys made for drainage system to comprise about 1000 acres land. About $20,000. Caldwell & Richards, Salt Lake City, engrs.

Utah, Salt Lake City—Irrigation—Davis Co. Irrigation Co. plan to build pumping plant to irrigate 5000 acres. About $25,000.

Wash., Centralia—Irrigation—Lewis Co. election Aug. 4, to vote on $60,000 bonds to establish irrigation district on Ford and Waunch Prairies, comprising approximately 14,000 acres.

Cal., Oakland—Drainage—See "Sewers."

Cal., North Berkeley—Excavation—See "Waterworks."

B. C., Summerland—Irrigation—Town Council soon receives bids building laterals and extensions to irrigation system. About $75,000. A. Fawkes, engr.

BIDS DESIRED

N. Y., Brooklyn—Dredging—Until July 30, by E. Riegelmann, boro. pres., dredging Wallabout Canal from Hewes St. to point 1500 ft. north of Hewes St.

N. J., Newton—Excavation—See "Streets and Roads."

Minn., Virginia—A. C. Bickford, city clk., receiving bids building Tuebreak Ditch, 10 ft. across, 4 ft. deep, 1 mi. long.

Utah, Salt Lake City—Drainage—Until Aug. 1, by Brighten D. D., improving drainage system, involving 313,000 lin.ft. 6-15 in. tile, 313,000 lin.ft. trenching and backfilling, and 35,000 cu.yd. open drains. Caldwell & Richards, Vermont Bldg., engrs.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★**Ill., Morrisonville**—Excavation—Bd. Educ. let contract excavating and building concrete footings and brick foundation walls for school, to H. O. Hirsch, Wainwright Bldg., St. Louis, Mo., $34,095.

Minn., Duluth—See "Streets and Roads."

★**Utah, Fillmore**—Drainage—Millard Drainage Dist. No. 3, Delta, let contract furnishing and placing 2,803,860 lin.ft. 8-20 in. tile, involving 1,380,000 cu.yd. open canal excav., and 2,800,000 lin.ft. trenching and backfilling, to B. A. Foley & Co., Aiken, Minn., $1,500,465.

★**Utah, Provo**—Drainage—Utah Co. D. D. No. 1 let contract furnishing and laying 159,250 lin.ft. 6-12 in. tile, involving 159,250 lin.ft. trenching and backfilling, and 73,000 cu.yd. open canal, to Heusser-Packard Co., Atlas Blk., Salt Lake City, $90,168.

Wash., Okanogan—Irrigation—State Irrigation Bd. received bids building irrigation project in Whitestone Dist., comprising 15,000 acres, from J. A. Morrison, Loomis, $161,800; Nettleton-Bruce-Esbach, Spokane, $170,000.

★**Wash., Vancouver**—Drainage—About 100 property owners of Clark Co. plan to reclaim 9000 acres by draining Shallow Pool and Vancouver Lake. Cost about $600,000, part of which will be borne by county. Work will be done under supervision of G. J. Posky, Kelso Bank Bldg., Kelso, co. drainage engr.

Industrial Works

PROPOSED WORK

Mass., Holyoke—G. P. B. Alderman & Co., archt., Alderman Bldg., soon receives bids building 2 story, 60 x 75 ft., brick and concrete, dairy plant, rein.-con. flooring, concrete foundation, on Beech and Sargent Sts., for Hall's Dairy, Inc., 11 Brooks Ave. About $30,000. Noted July 19.

Mass., Lynn—Davis Storage Battery Mfg. Co., 468 Chestnut St., plans to build addition to factory. About $150,000.

Mass., Millbury—Mayo Woolen Co. plans to alter and build addition to plant. About $60,000. J. R. Greenwood, agt. Architect not selected.

Mass., Pittsfield—G. E. Haynes, archt., 184 North St., preparing plans for 1 story, 75 x 150 ft. brick and concrete garage, rein.-con. flooring, concrete foundation, on South St. About $30,000. Owner's name withheld.

Mass., Springfield—Republican Co., Main St., plans to build modern fireproof printing plant on Cypress and Boylston Sts. About $100,000. Architect not selected.

Mass., Worcester—J. W. Gumbleton, 512 Southbridge St., plans to build 2 story laundry. About $35,000. Architect not selected.

Mass., Worcester—Lockwood, Greene & Co., engrs., 93 Federal St., Boston, soon receive bids altering and building steel and concrete addition to plant of Crompton & Knowles Loom Wks., on Grand St. About $25,000.

Conn., Bridgeport—Fletcher, Thompson, Inc., engrs., 1089 Broad St., soon receive bids building 2 story, 20 x 150 ft. brick and mill construction addition to factory, on Iranistan Ave., for Bridgeport Hardware Mfg. Co., 461 Iranistan Ave.

Conn., Hartford—Ford, Buck & Sheldon, engrs., 60 Prospect St., soon let contract building 2 story, 50 x 200 ft., brick and steel addition to factory, concrete foundation, on Hawthorne St., for Arrow Electric Co., 99 Hawthorne St. About $40,000.

Conn., Hartford—Hartford Rubber Wks., Bartholomew Ave., plans to build two 6 story, 100 x 300 ft. rein.-con. additions. Lockwood, Greene & Co., 93 Federal St., Boston, engrs.

Conn., Rockville—J. Zaugg, 73 Talcott Ave., plans to build 1 story garage and showroom. About $25,000. Architect not selected.

Conn., South Norwalk—Nash Eng. Co., Wilson Rd., plans to build 3 story brick and mill construction addition to factory, rock foundation. About $30,000. Private plans.

N. Y., Batavia—Batavia Rubber Co., Robertson and Maple Sts., plans to build several brick and concrete additions to plant. About $60,000.

N. Y., Canandaigua—Common Council plans to build ice making plant. About $60,000. Address Bd. Pub. Wks.

Industrial Works (Continued)

N. Y., Niagara Falls—Niagara Falls Gas & Electric Light Co., 306 Niagara Wks., Riverway, soon lets contract building gas plant on Buffalo Ave. and 22nd St., to include 7 buildings, concrete, brick and steel. About $200,000. A. H. Merritt, supt.

N. Y., Oswego—Kirk-Maher Co., 59 West Main St., Malone, ice cream manufacturers, purchased O'Keefe Bldg., here, and plans to remodel and build addition to same for its own use. Cost between $25,000 and $30,000.

N. Y., Penn Yan—Nestle's Food Co., 130 William St., New York City, purchased milk station on Jacob St., here, and plans to rebuild same. About $45,000.

N. Y., Troy—Troy Boiler Wks., 7th Ave., plans to rebuild plant. Cost between $25,000 and $35,000. Address J. M. Kelley, 7th Ave. and North St.

N. J., Harrison—Driver-Harris Co., c/o Lockwood Greene Co., archts., 101 Park Ave., New York City, having plans prepared for 3 story, 50 x 100 ft., rein.-on., pared for 3 story, 50 x 100 ft., rein.-con., flooring, concrete foundation. About $50,000.

N. J., Newark—E. F. Hauser, archt. and engr., Union Bldg., soon receives bids for 4 story, 30 x 120 ft., brick and steel factory, at 282 Springfield Ave., for Bernstein Furniture Co., 279 Springfield Ave. Cost between $50,000 and $60,000.

N. J., Passaic—Genl. Silk Importing Co., c/o Lockwood Greene Co., archts., 101 Park Ave., New York City, having plans prepared for rein.-con. factory, rein.-con. flooring, concrete foundation, covering 100,000 sq.ft. floor space. About $200,000.

Pa., Hazleton—A. J. Corey, c/o Boston Shoe Store, having plans prepared by C. R. Rineheimer, archt., 10 Airy St., Wilkes-Barre, building 2 story, 50 x 150 ft., rein.-con., steel and brick garage, rein.-con. flooring, concrete foundation, on Broad St. About $52,000.

Pa., Phila.—Tuttleman Bros., 406 Race St., soon receive bids for making interior alterations to factory, using brick, steel and concrete. About $60,000. H. B. Weldon, 10 South 18th St., archt.

Pa., Shickshinny—J. D. Woodworth, Main St., plans to build 2 story, 70 x 140 ft. concrete, steel and brick garage, concrete foundation. About $65,000. Architect not selected.

Pa., Wilkes-Barre—Atlantic Refining Co., Keokuk, Ia., plans to build 30 x 90 ft. brick, concrete and stone service station, concrete foundation, on Carey Ave. and Lockhart St., here. About $70,000. Architect not selected.

Pa., Wilkes-Barre—A. Salem, Blackman St., having plans prepared by C. R. Rineheimer, archt., 10 Airy St., building 3 story, 30 x 80 ft., concrete, steel and brick warehouse, concrete foundation. About $50,000.

Md., Baltimore—See "Buildings."

Md., Baltimore—Shapiro & Roney, Pratt St. and Fremont Ave., plans to build 2 story, 75 x 178 ft., brick and rein.-con. warehouse, concrete foundation. About $65,000. E. G. Blanke, 213 N. Calvert St., archt.

W. Va., Huntington—A. Voegele & Dinning Co., 603-5 4th Ave., soon lets contract building 3 story, 80 x 150 ft., rein.-con. candy factory, rein.-con. foundation, on 7th Ave. and 7th St. About $50,000. S. L. Day, 1st Natl. Bank Bldg., archt.

Ky., Louisville—F. Avery & Sons, 7th St., having plans prepared by D. X. Murphy & Bros., archts., building 1 story, 100 x 330 ft. brick and steel, factory, brick and concrete foundation, cost $125,000; also 1 story, 100 x 150 ft. rein.-con. and steel addition to forge shop, concrete and brick foundation, $75,000.

Ky., Louisville—Mattingly-Hubbard Motor Co., plans to build 4 story, 150 x 200 ft. rein.-con steel and concrete garage, concrete foundation, to include shop, service department and sales room, etc., on 3rd St. between York and Breckinridge Sts. About $100,000.

O., Cleveland—Acme Fdry. Co., Sweeney Rd., plans to build 1 story, 75 x 100 ft., concrete, steel and brick addition to foundry, concrete foundation. About $100,000. Architect not selected.

O., Cleveland—Amer. Steel & Wire Co., Western Reserve Bldg., plans to build 1 story, 350 x 400 ft., rein.-con., steel and brick addition to factory, rein.-con. flooring, concrete foundation, on Harvard Ave. and Cuyahoga River (to be built on unit system). About $2,000,000. Private plans.

O., Cleveland—Central Ohio Paper Co., Bingham Bldg., purchased site on East 12th St. and Oregon Ave. and plans to build 5 story, 90 x 132 ft. rein.-con. steel and brick warehouse. About $75,000. Architect not selected.

O., Cleveland—O. Darst, archt., Brunson Bldg., Columbus, receives bids about Aug. 1, building 5 story, 90 x 132 ft., concrete warehouse and office building, on 12th St., here, for Central Ohio Paper Co., 212 North 5th St., Columbus. About $120,000.

O., Cleveland—B. T. and S. P. Day Co., 2394 Canal Rd., plans to build 5 story, 50 x 80 ft., concrete, steel and brick warehouse, rein.-con. flooring, concrete foundation, on Prospect Ave. and Canal Rd. About $75,000. Architect not selected.

O., Cleveland—Durable Tire & Rubber Co., 1115 Citizens Bldg., plans to build 3 story, 50 x 200 ft., concrete, steel and brick factory, on East 49th St. and Newburgh & South Shore Ry. About $500,000. Architect not selected.

O., Cleveland—Glidden Varnish Co., Madison Ave. and Berea Rd., plans to construct 4 story, 59 x 90 ft., brick, steel and rein.-con. grinding building, on Madison Ave. About $60,000. Architect not selected.

O., Cleveland—Hampton-Keller Co., Swetland Bldg., plans to remodel 4 story, 80 x 100 ft., brick and steel factory, on East 3rd and St. Clair Aves. About $60,000. Architect not selected.

O., Cleveland—Ideal Tire & Rubber Co., East 17th St. and Euclid Ave., having plans prepared by Osborne Eng. Co., archts. and engrs., 2848 Prospect Ave., for 3 story, 100 x 200 ft., concrete, steel and brick addition to factory on Warner Rd. About $125,000. Noted July 3.

O., Cleveland—Krause Battery Co., 3425 West 25th St., plans to build 3 story, 50 x 108 ft., rein.-con., steel and brick service station on West 25th St. and Scranton Rd. About $50,000. Architect not selected.

O., Cleveland—McElrath Tire & Rubber Co., 620 Union Bldg., plans to build 2 story, 60 x 200 ft., brick, steel and concrete factory and power plant, on East 131st St. About $80,000. Architect not selected.

O., Cleveland—Shuster Co., 2214 East 4th St., has acquired 6 story, 140 x 250 ft., brick and steel factory and plans to remodel same. About $100,000. Architect not selected.

O., Columbus—F. L. Packard, archt., Hayden Bldg., receives bids in about 3 weeks building 5 story, 93⅓ x 187½ ft. wholesale grocery building, concrete, on Front St., for G. Bobbs & Sons Co., Main and Pearl Sts. About $200,000. Noted June 26.

O., Dayton—E. A. Brenneman, 42 Spirea Dr., organizing company to build factory for manufacture of tractors. About $100,000, including equipment.

O., Dayton—Dayton Standard Scale Co., 3103 West 3rd St., plans to build rein.-con. factory. About $40,000.

O., Dayton—Schwartz Estate, 5th and Ludlow Sts., plans to build 2 story, 120 x 190 ft., rein.-con. and brick garage and salesroom, rein.-con. flooring, concrete foundation, on West 4th St. About $100,000. Architect not selected.

O., Kent—Mason Tire & Rubber Co. having plans prepared by Osborn Eng. Co., engrs., 2848 Prospect Ave., Cleveland, for 60 x 90 ft. and 80 x 120 ft. addition to factory on Erie St. About $60,000.

O., Middletown—Amer. Rolling Mills Co. plans to build rein.-con., steel and brick mill. About $3,500,000, including equipment. Private plans.

O., Ravenna—Cascade Tire & Rubber Co. having plans prepared for 2 story, 175 x 300 ft. tire plant. About $65,000.

O., Troy—Cappel-Wayne Furniture Co., South Main St., Dayton, plans to build 2 or 3 story, 100 x 130 ft. warehouse, probably rein.-con., brick curtain walls, on Dayton Pike, here. Architect not selected.

O., Warren—D & M Cord Tire Co., Engrs. Bldg., Cleveland, plans to build 3 story, 80 x 120 ft., brick, steel and rein.-con. rubber plant, here. About $75,000. Architect not selected.

Mich., Detroit—Chevrolet Motor Co., 1244 Woodward Ave., soon lets contract for 1 story, 106 x 150 ft., rein.-con., brick and steel service station, rein.-con. flooring, concrete foundation, on York St., near Cass Ave. L. Kamper, 752 Book Bldg., archt.

Mich., Detroit—Fruehauf Trailer Co., 1371 Gratiot Ave., having plans prepared by Stahl & Kinsey, archts., McKerchey Bldg., for 1 and 2 story, 100 x 260 ft. rein.-con. and brick factory, rein.-con. flooring, concrete foundation, on Detroit Terminal R.R., near Deguinder St. About $100,000.

Mich., Detroit—Packard Motor Car Co., East Grand Blvd., soon lets contract for 2 story, 196 x 201 ft., rein.-con. and brick service station and garage, rein.-con. flooring, concrete foundation, on Antoine and Woodbridge Sts. A. Kahn, Marquette Bldg., archt.

Ill., Chicago—Brock & Rankin, 619 South La Salle St., plan to build 8 story, 106 x 140 ft. publishing plant on Sherman and Polk Sts. About $500,000. Architect not selected.

Ill., Chicago—Wartburg Publishing House, c/o Worthmann & Steinbeck archts., 155 North Clark St., having plans prepared for 4 story, 68 x 130 ft. rein.-con. and brick plant, rein.-con. flooring, concrete foundation, at 2018 Calumet Ave. About $100,000.

Wis., Peshtigo—Peshtigo Pulp & Paper Co. plans to build 2 story, 70 x 178 ft. brick, rein.-con. and steel factory, brick foundation, on Main St. About $55,000. L. A. DeGuere, Grand Rapids, engr. and archt.

Wis., Sheboygan—By Wald Mfg. Co. 18th St. and Martin Ave., soon lets contract building 2 story, 80 x 194 ft. brick, rein.-con. and steel factory, rein.-con. flooring, brick foundation on Martin Ave. Cost between $25,000 and $30,000. Private plans Noted July 10.

Wis., Sheboygan—Chair City Broom Mfg. Co. plans to build 2 story, 90 x 110 ft. rein.-con. and brick factory, rock or concrete foundation, on 15th and Martin Sts. About $40,000. I. Perlman, pres. Architect not selected.

Ia., Council—Sinclair Refining Co., Conway Bldg., Chicago, having plans prepared building 1 story, 100 x 100 ft. warehouse and service station on Bway., between 13th and 14th St. About $30,000. W. T. Dinkins, Woodmen of World Bldg., Omaha, Neb., branch mgr.

Minn., Springfield—Co-operative Creamery Co. having plans prepared by A. Schippel, archt., Mankato, for 2 story, 52 x 66 ft., steel creamery. About $30,000.

Kan., Elkhart—City plans to improve electric light and water systems. Plans include razing of old power house and building new one. Bonds for $60,000 voted for project.

Kan., Wichita—O. J. Motor Co. rejected bids received July 8 building 5 story, 61 x 136 ft., rein.-con., steel and brick warehouse, rein.-con. flooring, concrete foundation. About $110,000. Noted July 3.

Neb., Lincoln—Henkle & Joyce Hardware Co. having plans prepared for 5 story, 50 x 100 ft. building with 2 story, 42 x 100 ft. addition, rein.-con. steel and brick, rein.-con. flooring and concrete foundation, on 8th and O Sts. About $100,000. E. Davis, Lincoln, engr.

Neb., Omaha—Nebraska Oldsmobile Co., 2559 Farnam St., receives bids about Aug. 1, building 3 story, 77 x 147 ft. automobile storage and sales building, rein.-con., brick facing and concrete foundation, on 18th and Howard Sts. About $200,000. J. McArthur, 401 Keeline Bldg., archt.

Mo., St. Louis—P. M. Adams, archt., c/o J. I. Case Threshing Machine Co., Mead St., Racine, Wis., soon receives bids building 192 x 400 ft. factory, on Forest Park Blvd. and Boyle Ave., here, for J. I. Case Threshing Machine Co., 700 South 17th St. Cost to exceed $100,000.

Mo., St. Louis—Gen. Motors Co., Flint, Mich., having plans prepared building two 3 story, 200 x 750 ft. factories, rein.-con. steel and brick, rein.-con. flooring and concrete foundation on Union St. near Natural Bridge. About $1,600,000. Buick Motors Co., archts., and W. H. Kilpatrick, engr., both of Flint, Mich.

Mo., St. Louis—St. Louis Mfg. Corp., Div. Gen. Motors Corp., 5401 Bulwer St., soon receives bids building two 3 story, 300 x 720 ft. rein.-con., steel and brick factories, rein.-con. flooring and concrete foundation at 3707-3911 Union Ave. About $808,800 each. W. H. Kilpatrick, engr., and Buick Motors Co., archt., both of Flint, Mich.

Ariz., Johnson—Keystone Copper Co., Newton, Kan., plans to build 100-ton mill, 6 mi. east of here, using flotation and concentration process at copper mines.

Industrial Works (Continued)

Wash., Seattle—Chanslor & Lyon Co., 914 East Pike St., plans to build 3 story, 120 x 121 ft. mill construction auto accessory plant, rein.-con. flooring, on 12th and Madison Sts. About $60,000. A. H. Bittman, Securities Bldg., engr.

Wash., Seattle—S. A. Hull, 2125 8th Ave., W., plans to build 4 story, 120 x 120 ft. timber warehouse, rein.-con. flooring, on Western and University Sts. About $125,000. J. Graham, L. C. Smith Bldg., archt.

Wash., Tacoma—City election Aug. 12 to vote on $300,000 bonds for purchasing site on Skokomish River and developing water power to have capacity of 75,000 h.p.

Wash., Vancouver—Clarke Co. Creamery Co. recently incorporated, with $100,000 capital stock, plans to build milk plant here, capacity, 10,000 cows. O. R. Lee, mgr. Architect not selected.

Ore., Portland—Company backed by M. Thelan, mgr. Illinois Farmers' Packing Co., and W. H. Hawthorne, both of Spring Valley, Ill., plans to build packing plant, here or near here. About $750,000. W. H. Crawford, c/o Dept. Industries, Chamber of Commerce, Portland, to investigate sites.

Ore., Portland—Franks Laundry & Dry Cleaning Co. plans to build 1 story, 100 x 100 ft., brick and tile laundry. Cost, $65,000, including equipment. H. S. Franks, mgr. L. R. Bailey, Northwestern Bank Bldg., archt.

Ore., Portland—See "Buildings."

Ore., Portland—Standard Oil Co., Astoria, having plans prepared for 1 story concrete warehouses on 100 x 100 ft. site on 5th St. and Spokane, Portland and Seattle R.R. right of way. About $50,000.

Cal., Fresno—See "Buildings."

Cal., Los Angeles—Layne & Bowler Corp., 900 Santa Fe Ave., purchased 9 acre site on 55th St. and Santa Fe Ave., and plans to build plant.

Cal., Sacramento—California Packing Corp., c/o P. Bush, engr., 101 California St., San Francisco, having plans prepared for 4 story, rein.-con. packing house on P. Q. 2nd and Front Sts. About $550,000.

Cal., Sacramento—Capitol Cracker & Candy Co., 810 2nd St., plans to build 5 story, rein.-con. and steel factory on 2nd and I Sts. About $250,000. G. Sherman, mgr.

Que., Red Mill—Canada Paint Co., 572 William St., Montreal, receives bids in August building 3 story, 40 x 60 ft., brick and steel factory, concrete foundation, here. About $42,000.

Ont., Ottawa—Grand Trunk Ry., McGill St., Montreal, Que., plans to build brick, concrete and steel storage plant here. About $70,000. H. R. Safford, Montreal, ch. engr.

BIDS DESIRED

Conn., New Britain—C. C. Palmer, archt., 272 Main St., receiving bids for 2 story, 60 x 100 ft., brick and concrete garage, rein.-con. flooring, concrete and rock foundation, for Swift & Ferguson, c/o archt. About $30,000.

N. Y., Long Island City—Until July 28, by Ballinger & Perrot, archts., 17th and Arch Sts., Phila., building 5 and 6 story, 200 x 600 ft., rein.-con. and brick factory at Degnal Terminal, for Amer. Chicle Co., 19 West 44th St., New York City. About $2,000,000.

N. Y., Long Island City—Until July 28, by C. Kreynborg, archt. and engr., 163rd St. and Park Ave., New York City, for 2 story, 200 x 300 ft. brick and steel factory, rein.-con. flooring, on Dale Rd., Washington and Union Hill Sts., for J. F. Tapley Co., Dale Rd., Jamaica.

N. J., Hackensack—See "Sewers."

Md., Baltimore—L. Rothchild, archt., 1925 Sansom St., Phila., receiving bids constructing 3 story, 40 x 110 ft. steel and stone service and sales building on North Ave. and Oak St., for Reinhardt Motor Co., here.

Mich., Detroit—A. Kahn, archt., Marquette Bldg., receiving bids for 3 story, 184 x 234 ft. rein.-con. and brick addition to factory, creosoted wood and rein.-con. flooring, and 2 story, 62 x 157 ft. rein.-con., steel and brick addition to office, rein.-con flooring, for Detroit Pressed Steel Co., Mt. Elliott Ave.

Mich., Detroit—L. Kamper, archt., 752 Book Bldg., receiving bids for 2 story, 69 x 125 ft., rein.-con., steel and brick, dry kiln, rein.-con. flooring, concrete foundation, and 6 story, 144 x 236 ft. rein.-con. factory, rein.-con. flooring, concrete foundation, on Farnsworth and Riopelle Sts., for Fisher Body Co., Oakland and Piquette Aves.

Mich., Detroit—Smith, Hinchman & Grylls, archts., 710 Washington Arcade, receiving bids for 1 story, 80 x 198 ft., steel and cement stone factory, creosoted wood on concrete flooring, and concrete foundation, for Detroit Steel Products Co., East Grand Blvd.

Ill., Chicago—A. L. Alschuler, archt., 28 East Jackson St., is receiving bids for 4 story, 125 x 250 ft. brick and timber factory, concrete foundation, on Belmont and Hamlin Sts., for Florsheim Shoe Co., 541 West Adams St. About $275,000.

Minn., Duluth—Until Aug. 1, by A. Puck, archt. and engr., Tarrey Bldg., for 2 story, 75 x 280 ft., rein.-con., brick and steel factory, rein.-con. flooring, concrete foundation, on 49th Ave., W., for Duluth Show Case Co., West Superior St. and 28th Ave. About $150,000.

Que., Quebec—Until Aug. 1, by E. Cormier, archt., New Birks Bldg., Montreal, building 4 story, 100 x 125 ft. concrete, steel and brick factory, concrete foundation, on St. Joseph St., for Marceau Oil Cloth Co., Quebec. About $500,000.

Ont., Toronto—Until July 31, by F. S. Saunders, archt., 672 Crawford St., building 3 story, 60 x 80 ft., concrete, steel and brick storehouse, rein.-con. flooring, concrete foundation, on Roncesvalles Ave., for S. Caufield & Son, 381 Roncesvalles Ave. About $50,000.

Ont., Walkerville—Grylls, Smith & Hinchman, archts., Washington Arcade, Detroit, Mich., receiving bids building 2 story, 60 x 337 ft. rein.-con. and brick factory, rein.-con. flooring, concrete foundation, on Walker Rd. and Seminole St., for Motor Products Co., Walker Rd., Walkerville.

Sask., Sutherland—Until Aug. 5, by R. C. Desrochers, secy. dept. pub. wks., Ottawa, Ont., for automatic lighting plant and electric wiring, etc., at Forest Nursery Sta., here.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract.)

★**Mass., Fall River**—Keogh Storehouse Co., Darol St., will build 6 story brick and mill construction warehouse. About $100,000. Work will be done by day labor.

★**Mass., Holyoke**—Gowan Truck Co., Canal St., let contract building 2 story brick and mill construction addition to factory, concrete foundation, to Caspar Ranger Constr. Co., 20 Bond St. About $25,000.

★**Mass., Onset**—J. A. Milliken let contract building 1 and 2 story, 90 x 260 ft. and 40 x 80 ft., wood and steel canning factory, concrete foundation, to H. C. Vose, Wareham. About $125,000.

★**Mass., Springfield**—Package Machinery Co., 132 Birnie St., let contract building 2 story brick addition to factory, to F. T. Ley & Co., 499 Main St. About $28,000.

★**Mass., Turner Falls**—Esleeck Mfg. Co. let contract building 5 story, 60 x 120 ft., brick and mill construction addition to factory, concrete foundation, to Caspar Ranger Constr. Co., 20 Broad St., Holyoke. About $75,000. Noted July 10.

★**Mass., Worcester**—J. Smith & Son, 99 Hope Ave., let contract building 2 story, 60 x 212 ft. brick machine shop, concrete foundation, on Southbridge St., to E. J. Cross Co., 82 Foster St. About $38,000.

★**Mass., Worcester**—See "Buildings."

★**R. I., Woonsocket**—Barnai Worsted Co. will build 1 story, 35 x 130 ft. and 35 x 40 ft., brick and mill construction dyehouse, concrete foundation, on South Main St. About $25,000. Work will be done by day labor.

★**Conn., Bristol**—Amer. Silver Co., 2 Riverside Ave., let contract building 3 story, 32 x 190 ft. brick and mill construction addition to factory, concrete foundation, to Tracy Bros. Co., 52 Benedict St., Waterbury. About $50,000.

★**Conn., Danbury**—G. H. McLachlan Co., Thorpe St., let contract building 2 story, 36 x 72 ft. and 40 x 60 ft., brick and mill construction addition to factory, rock foundation, to L. Sweeney, 26 Montgomery St. About $25,000.

★**Conn., Hartford**—Older & Rosenberg 1212 Main St., let contract building 4 story 64 x 128 ft., brick, concrete and steel garage, rein.-con. flooring, concrete foundation, on Main St. to G. Cudemo, 327 Trumbull St. About $95,000.

★**Conn., Jewett City**—Ashland Cotton Co. will build 1 story 150 x 190 ft., brick and mill construction addition to mill, concrete foundation. About $65,000. Private plans. Work will be done by day labor.

★**Conn., New Haven**—Atlantic Refining Co., Turks Head Bldg., Providence, R. I. let contract building 2 story, 30 x 80 ft. warehouse and 1 story, 28 x 56 ft. garage, brick and concrete, rein.-con. flooring, concrete foundation, on Albert St., to Metzger & Fisher Co., Otis Bldg., Phila. About $25,000

★**Conn., Plainville**—Trumbull Electric Mfg. Co., Woodford Ave., let contract building 4 story, 50 x 106 ft., and 1 story, 60 x 100 ft., brick and mill factories, and 2 story, 50 x 150 ft. concrete factory, rein.-con. flooring, concrete foundation, to L. A. Miller, 22 Church St., Meriden. About $90,000.

★**N. Y., Brooklyn**—Koch & Wagner, archts., 42 Court St., let contract to Gibbons Co., 316 Columbia St., building 3 story 30 x 40 ft. rein.-con. and steel factory and storage plant, rein.-con. flooring, concrete foundation, on 19th St. and 3rd Ave., for R. H. Comey Co., 73 19th St. About $50,000. Noted June 19.

★**N. Y., Brooklyn**—B. Stephano Bros., 715 Lorimer St., will build 1 story, 50 x 100 ft. brick and steel garage, rein.-con. flooring, on Richardson and Lorimer Sts. About $25,000. Work will be done by day labor.

★**N. Y., Cohoes**—J. E. Gledhill, 541 West 34th St., New York City, let contract building 2 story, 100 x 400 ft. brick mill, here, to C. P. Boland Constr. Co., 30 4th St., Troy. About $250,000.

N. Y., Flushing—E. S. Walsh, supt. pub. wks., Capitol, Albany, received bids building barge canal terminal and timber freight house at Barge Canal Terminal, here. Contr. 43, from McHary-Barton Co., 171 Madison Ave., New York City, $151,340; Anderson & Weaver, Inc., West New Brighton, $162,341; Degnan Contg. Co., 51 East 42nd St., New York City, $165,138. Noted June 19.

★**N. Y., Middletown**—Dundee Textile Co., Clifton, N. J., let contract building 1 story, 25 x 30 and 120 x 130 ft., mill, to B. M. Higginson, Inc., Middletown. About $40,000. Noted June 19.

★**N. Y., New York**—C. Kreynborg, archt. and engr., 163rd St. and Park Ave., let contract, to I. Maifello, Williamsbridge, for 1 story, 100 x 200 ft. brick and steel factory, rein.-con. flooring, concrete foundation, on Bush and 177th St., for Finkel Umbrella Frame Co., 2534 East 137th St. About $75,000. Noted June 19.

★**N. Y., Syracuse**—United States Hoffman Co., Taylor St., let contract for 2 story, 80 x 200 ft. factory and 40 x 60 ft. power house, rein.-con. and brick, to Dawson Bros., Union Bldg., $100,000.

★**N. Y., Utica**—Foster Bros. Mfg. Co., 807 Broad St., let contract building 2 story, brick addition to plant, to Hopp & Down, about $40,000.

★**N. Y., Watertown**—L. Manfred, 126 Arsenal St., will build 1 story brick garage. About $25,000. Work will be done by day labor.

★**N. J., Hoboken**—R. Newman & Co. let contract building 2 story, 300 x 400 ft., concrete and steel addition to factory on Ferry and Willow Sts., to Rheinstein & Haas, 21 East 40th St., New York City. About $125,000.

★**Pa., Carlisle**—Lockwood, Greene Co., archts. and engrs., 101 Park Ave., New York City, let contract, to J. F. Rogers, Drexel Bldg., Phila., building 200 x 475 ft. rein.-con. and steel carpet factory, rein.-con. flooring, concrete foundation, here, for C. H. Masland & Sons, c/o archts. About $750,000. Noted June 26.

★**Pa., Phila.**—Rosenau Realty Co., 2545 North Broad St., let contract building 1 story, 125 x 151 ft., steel and brick factory, on 25th and Westmoreland Sts., to P. Hailbach Contg. Co., 1261 North 26th St. About $38,500.

Industrial Works (Continued)

★**Pa., Phila.**—Vigogne Mills, Adams Ave. and Wingohocking St., let contract building 3 story, 63 x 250 ft., brick and slow burning construction factory, on Unity and Oakland Sts., to M. W. Easly, 1420 Chestnut St. About $100,000. Noted June 19.

★**Pa., Wilkes-Barre**—Maloney Oil Co., Land Title Bldg., Phila., let contract building 2 story, 36 x 76 ft., concrete and brick warehouse and service station, concrete foundation, on Carey Ave., to H. Mailand, Barney St. About $51,000.

★**Md., Baltimore**—W. Fuld, 1228 North Central Ave., let contract building 2 story, 90 x 139 ft., brick and steel factory, rock foundation, to Consolidated Eng. Co., 243 Calvert Bldg. About $30,000.

★**Md., Canton** (Baltimore P. O.)—Eastern Rolling Mill Co., 503 Lexington St. Bldg., Baltimore, let contract erecting 1 story, 300 x 700 ft. factory, steel frame and sheet metal construction, concrete foundation, on 5th Ave., to Belmont Iron Wks., 32 Bway., New York City.

★**Md., Highlandtown** (Baltimore P. O.)—Jones & Lamb Co., Pennsylvania and Fulton Aves., let contract remodeling plant of Monumental Brewery Co., 7th and Lombard Sts. and constructing several rein.-con., steel and brick buildings, rein.-con. flooring, rein.-con. foundation, to Consolidated Eng. Co., 243 Calvert Bldg., Baltimore. About $500,000. Noted July 10.

★**W. Va., Huntington**—Schon, Stevenson & Co., 11th St. and Chesapeake & Ohio R.R., will build 2 story, brick coffee roasting plant. About $25,000. Work will be done by day labor.

★**O., Cleveland**—Chester Realty Co., Williamson Bldg., let contract building 2 story, 55 x 120 ft., concrete, steel and brick garage, rein.-con. flooring, on East 65th St. and Carnegie Ave., to W. Stremple, 1029 Williamson Bldg. About $50,000. Noted July 17.

★**O., Cleveland**—Cleveland Metal Products Co., 1141 Ivanhoe Rd., let contracts to Craig Curtis Co., Guardian Bldg., for 3 story 72 x 266 ft. addition to machine shop, cost $75,000; 1 story, 120 x 300 ft. addition to foundry, $75,000; both rein.-con., steel and brick. Noted July 17.

★**O., Cleveland**—Sixth City Realty Co., Guardian Bldg., let contract building 4 story, 167 x 370 ft., concrete, steel and brick garage, on East 6th St. and St. Clair Ave., to C. A. Carson, 6408 Euclid Ave. About $1,300,000. Noted July 17.

★**O., Cleveland**—Union Garage Co., 517 Sloane Bldg., let contract building 2 story, 165 x 212 ft., concrete, steel and brick garage, on West St. Clair Ave., to C. A. Carson Co., 6408 Euclid Ave. About $400,000. Noted May 29.

★**O., Columbus**—D. L. Auld Co., 195 East Long St., let contract building 2 story, 45 x 390 ft. brick factory with 90 ft. wing on 5th St. and 5th Ave., to Franklinburg Constr. Co., Savings & Trust Bldg. About $55,000. Noted June 26.

★**O., Columbus**—Columbus Pharmacal Co., Oak and Columbus Sts., let contract building 3 story, 43 x 83 ft. brick warehouse, to E. Elford, 104 North 3rd St. About $60,000.

★**O., Dayton**—Air City Garage Co., 16 South Jefferson St., let contract building 3 story, 80 x 132 ft., rein.-con. and brick garage, rein.-con. flooring, concrete foundation, on 5th and Perry Sts., to J. Lowes, Dayton. About $100,000. Noted June 5.

★**O., Dayton**—R. E. Gebhart, archt., 73 Callahan Bank Bldg., let contract to J. W. Bowen, Louis and Columbus Sts., building 3 story, 60 x 80 ft., rein.-con. and brick factory, rein.-con. flooring, concrete foundation, on Franklin St., for Custer Specialty Co., 26 North Ludlow St. About $30,000. Noted Apr. 17.

★**O., Springfield**—Springfield Baking Co., West Washington St., let contract building 2 story, 50 x 80 ft., rein.-con. and brick bakery, concrete foundation, to Cogswell Bldg. Co., Springfield. About $35,000.

★**Mich., Detroit** — Genl. Motors Corp., Boyer-Campbell Bldg., let contract for 6 story, 150 x 150 ft., rein.-con., brick and steel service and sales building, rein.-con. flooring, concrete foundation, to W. E. Wood Co., 1805 Ford Bldg. Noted June 12.

Mich., Detroit—A. Harvey Sons Mfg. Co., Woodbridge St., let contract building 6 story, 44 x 67 ft., rein.-con., brick and steel warehouse, rein.-con. flooring, piling and concrete foundation, on Woodbridge and 1st Sts., to Walbridge-Aldinger & Co., 2356 Penobscot Bldg. Noted June 26.

★**Ill., Chicago**—Straus & Schraus, 105 West 35th St., let contract building 2 story, 65 x 120 ft. mill construction warehouse, at 105 West 35th St., to E. W. Sproul Co., 2001 West 35th St. About $120,000.

★**Ill., Columbia**—Village let contract furnishing and constructing electric light and power plant to be divided in Sect. 1, building extension and machinery foundations, Sect. 2, 100 h.p. H. R. T. boiler and breeching, Sect. 3, 100 ft. x 4 in. concrete chimney, Sect. 4, 120 h.p. non-releasing Corlis or Unaflow Engine, Sect. 5, heater, boiler, feed pump, pipe work and covering, Sect. 6, direct connected A.C. generator, exciter, transformer and switchboard, to Baumes, McDevitt Machine Co., Ry. Exch. Bldg., St. Louis, Mo. About $100,000. Noted June 26.

★**Minn., Duluth**—Capitol Elevator Co., Board of Trade Bldg., let contract building 2 story, 75 x 120 ft., rein.-con., brick and steel addition to mill on Garfield Ave., to Barnett & Record Co., Lyceum Bldg. About $50,000.

★**Kan., Wichita**—A. J. Watson, 223 South Lawrence Ave., let contract building concrete warehouse, to Eberhart Constr. Co., Salina. About $115,000. Noted June 12.

★**Mo., Hermann**—Kilkenny Steel Wks. let contract building 1 story, 20 x 110 ft., rein.-con., steel and brick addition to forge shop, rein.-con. flooring, rock foundation, to Dings Constr. Co., Kansas City. About $80,000.

★**Mo., St. Louis**—Langenberg Bros. Grain Co., Chamber of Commerce Bldg., let contract building 35 x 45 ft. wharf house and 48 x 200 ft. mill, concrete, steel and brick, rein.-con. flooring, rock foundation, at 3921 North Wharf St., to Gamble Constr. Co., Gamble Bldg. About $48,000.

★**Mo., St. Louis**—Swift Packing Co., 800 Vandeventer Ave., let contract building 30 x 300 ft. addition to hoghouse, to Kellerman Contg. Co., International Life Bldg. About $41,000.

★**Wash., Seattle**—Jordan Terminal Co. let contract building 1st unit of warehouse terminal plant in industrial addition, consisting of 1 story building, covering 24,000 sq.ft. floor space, to J. A. McEachern Co., Bell St. Dock. About $50,000.

★**Ore., Portland**—U. S. Bakery Co., East 11th and Flanders Sts., let contract building 1 story, 100 x 200 ft., concrete and brick bakery, to W. Vaetz, 241½ 1st St. About $30,000.

★**Cal., San Jose**—R. Fry let contract building 3 story rein.-con. garage, rein.-con. flooring, concrete foundation, on 1st and San Carlos Sts., to Cahill-Vensano Co., French Bank Bldg., San Francisco. About $60,000. H. P. Smith, San Jose, lessee.

★**N. S., Sydney**—Dominion Government let contract for 250,000 tons ship plates and construction of large rolling plant here, to Dominion Steel Corp., 112 St. James St., Montreal, Que. About $5,000,000.

★**Ont., Fergus**—Beatty Bros. will build extension to factory, to consist of 3 wings, 45 x 100, 45 x 185 and 142 x 192 ft., concrete and brick. About $60,000. Work will be done by day labor.

★**Ont., Ford City**—Imperial Oil Co., 56 Church St., Toronto, let contract building brick oil refinery, here, to Westcott Contg. Co., Windsor. About $100,000.

★**Ont., London**—Murray Shoe Co., Richmond St., let contract building 3 story, 60 x 100 ft. steel and brick factory, to S. Wells, 765 Talbot St. About $80,000.

★**Ont., Oshawa**—General Motors Co. of Canada let contract building rein.-con. and brick factory, rein.-con. flooring, concrete foundation to include 40 x 80 ft. assembly, 80 x 200 ft. shipping, 80 x 800 ft. storage and 80 x 300 ft. enameling buildings, all 4 story, to Canadian Stewart Co., foot Cherry St., Toronto. About $1,000,000. Noted July 3.

Ont., Parry Sound—See "Miscellaneous."

Buildings

PROPOSED WORK

N. H., Exeter—Hospital—Phillips-Exeter Academy plans to build fireproof hospital on campus. About $200,000. Architect not selected.

Mass., Worcester—Ward—City plans to build ward building for infectious diseases at Belmont Hospital on Belmont St. About $160,000. Architect not selected.

R. I., Lonsdale (Pawtucket P. O.)—School—Lincoln Twp. plans to build school here. About $50,000. Address [illegible] Fitzsimmons, Lonsdale. Architect not selected.

R. I., Pawtucket—Business—City Hall Broad St., receives bids in September for 3 story brick and rein.-con., rein.-con. flooring, concrete foundation. About $150,000.

R. I., Providence—Business—J. Marcus & Bro., 210 North Main St., having plans prepared by W. G. Richards, archt., 17 Exchange St., for 3 story, 80 x 100 ft. brick and concrete, rein.-con flooring, concrete foundation. About $60,000.

R. I., Woonsocket—College—Church of Precious Blood receives bids in September for 3 story brick and rein.-con., rein.-con. flooring, concrete foundation. About $100,000. W. F. Fontaine, 285 Main St., archt.

Conn., Bridgeport—Police Station—City plans to build 3 story, brick, steel and concrete, on Barnum Ave. and Caroline St. About $75,000. W. J. Skinner, 1188 Main St., archt. Noted May 22.

Conn., Bridgeport—School—City plans to build addition to McKinley School on Kelsey St. About $150,000. F. A. Cooper, 1024 Main St., archt. Noted May 22.

Conn., Bristol—Community—Trowbridge & Ackerman, archts., 25 West 44th St., New York City, soon let contract building 2 story brick, steel and concrete, rein.-con. flooring, concrete foundation on Main St. for city. About $200,000. Noted Apr. 17.

Conn., Groton—School—Town soon lets contract building 1 story brick, wood flooring, concrete foundation. About $50,000. Bilderbeck & Langdon, Barrows Bldg., New London, archts. Noted July 17.

Conn., Hartford—School—City having plans prepared by W. F. Brooks, archt., Lewis and Gold Sts., for 3 story, 12 room addition to Brown School, on Talcott St. About $100,000. W. E. Cone, 89 Asylum St., chn.

Conn., Manchester—School—Town appropriated $150,000 bonds to build new school. Architect not selected.

Conn., Mansfield — School, etc. — State Training School had plans prepared by Cudworth & Thompson, archts., Thayer Bldg., Norwich, for 2 story, 35 x 80 ft., with 35 x 70 ft. ell, ward building, 1 story, 60 x 100 ft. dining hall, and 2 story, 60 x 100 ft. school and gymnasium, brick and concrete, rein.-con. flooring, rock and concrete foundation. About $250,000. Noted May 15.

Conn., Middletown — Houses — Russell Mfg. Co., South Farms, plans to build several 2 story workmens houses. About $50,000. Architect not selected.

Conn., New Britain—School—Bd. Educ. having plans prepared by C. C. Palmer, archt., 272 Main St. for brick concrete and steel addition to Northend School on Bassett St. About $200,000. Noted June 12.

Conn., New Haven — Hospital — New Haven Hospital, 330 Cedar St., having plans prepared by C. S. Palmer, archt., 191 Church St., for private room ward, children's building, service and nurses' home, on Cedar St. About $1,100,000. I. Ullman, chn. Noted June 5.

Conn., New Haven—Parish House—Trinity Church congregation plans to build parish house on George St. About $100,000. Address C. O. Scoville, 442 Temple St.

Conn., New London—High School—Bd. Educ. having plans prepared by D. S. Donnelly, archt., Plant Bldg., for junior high school. About $500,000. P. L. Harwood, pres. school bd. Noted Feb. 6.

Conn., Norwalk—Home—Davis & Dane, archts., 1024 Main St., Bridgeport, and Fairfield Co. Bd. (Bridgeport), soon receive bids building 3 story, 35 x 60 ft., brick and steel addition, rein.-con. flooring, concrete foundation, on Westport Ave., here. About $50,000. Noted Mar. 6.

Conn., Norwich—High School—City plans to build junior boys' high school. About $250,000. Architect not selected.

Buildings (Continued)

Conn., Shelton—High School—City will appropriate $125,000 to build high school here. Architect not selected.

Conn., South Manchester—Business—J. W. Hall Co., 949 Main St., soon receives bids building 3 story brick and steel. About $50,000.

Conn., Stafford—Business—A. R. Sharpe, archt., 227 Lewiston Ave., Willimantic, soon receives bids for 3 story, 70 x 140 ft. brick, rein.-con. flooring, concrete foundation, to include assembly hall, theatre, post office and offices, for W. H. Hall, South Willington. About $60,000.

Conn., Waterbury—Office—Scovill Mfg. Co., 99 Mill St., having plans prepared by C. Gilbert, archt., 244 Madison Ave., New York City, for brick and rein.-con., rein.-con. flooring, concrete foundation, on Cole, Baldwin and Mill Sts. About $125,000. Noted July 10.

Conn., Willimantic — Dormitory — State Normal Training School, Hartford, had plans prepared by W. H. Brooks, archt., Lewis and Gold Sts., Hartford, for 3 story, 46 x 114 ft., brick, steel and concrete, rein.-con. flooring, concrete and rock foundation, on Valley St., here. About $150,000. Noted Jan. 30.

N. Y., Buffalo—Store—J. W. Powell, 1136 Main St., plans to build 7 story, rein.-con. and brick, at 1140 Main St. About $100,000.

N. Y., Endicott—Club and Gymnasium—G. F. Johnson of Endicott Johnson Co., 753 Bleecker St., Utica, soon receives bids for rein.-con. and brick, on Main St. W. About $100,000.

N. Y., Johnson City—Theatre—G. F. Johnson of Endicott Johnson Co., 753 Bleecker St., Utica, having plans prepared for moving picture theatre, here. About $200,000.

N. Y., New York—School—Bd. Educ. having plans prepared by C. B. J. Snyder, archt. and engr., Municipal Bldg., for P. S. 62, 5 story, 230 x 280 ft. brick and steel, brick foundation, on Liggett St., Southern Blvd. and Fox St. About $600,000.

N. Y., Troy — Laboratory — Ranssalaer Polytechnic Institute having plans prepared for 2 story addition to William Weightman Walker Laboratory. About $175,000. Address P. C. Ricketts, pres.

N. J., Collinswood—Rectory—St. John's congregation soon receives bids for 3 story, 30 x 70 ft., stone. F. F. Durang, 1220 Locust St., Phila., archt.

N. J., Maple Shade—School—Bd. Educ. soon receives bids for 2 story, 63 x 113 ft., brick. About $80,000. W. C. Furber, 418 Walnut St., Phila., archt.

Pa., Bellwood — Church — St. Joseph's Catholic congregation receives bids about Aug. 23 building 2 story, 43 x 96 ft. brick, rock foundation. About $55,000. C. E. Haley, pastor. D. G. Puderbaugh, Hutchinson Bldg., Altoona, archt. and engr.

Pa., Carlisle — Church — Grace United Brethern Church plans to build 1 story, 87 x 117 ft. concrete, steel and brick, stone foundation, on Pomfret and West Sts. About $60,000. Markley & Starr, Harrisburg, archts.

Pa., Connellsville — Church — United Brethern congregation plans to build 60 x 100 ft. church. About $50,000. J. S. Ehowers, pastor and chn.

Pa., Pittsburgh—Fire and Police Stations, etc.—City voted $1,110,000 bonds to build fire, police and comfort stations and improve hospital facilities. N. S. Sprague, ch. engr. dept. pub. wks., Noted Jan. 30 under "Streets and Roads."

Pa., Saxton—School—School Bd. receives bids about Aug. 15 building 2 story, 55 x 100 ft., brick and stone school and community hall, rein.-con. flooring, concrete foundation, on Main St. About $50,000. F. A. Hersh and F. J. Shollar, Commerce Bldg., Altoona, archts.

Pa., Waynesboro—Bank—People's Natl. Bank, having plans prepared by Wyatt & Nolting, archts., 1012 Keyser Bldg., Baltimore, Md., for bank. About $50,000.

Pa., Wilkes-Barre—Club—Chopin Singing Society, Miners Bank Bldg., plans to build 5 story, 70 x 110 ft. brick and timber, rock foundation, on South Washington St. About $115,000. Architect not selected.

Md., Baltimore—Dormitory—Morgan College, Hillen Rd. and Arlington Ave., plans to build 2½ story, 36 x 148 ft. dormitory and 1 story, 32 x 48 ft. power house, stone and brick, stone foundation. About $75,000. E. L. Tilton and A. M. Githens, 52 Vanderbilt Ave., New York City, archts.

S. C., Florence—School—School Bd. plans to build school here. About $100,000. Noted Apr. 10.

Tenn., Memphis—Auditorium and Market—City plans to build auditorium and market house to cover 1 block square on Main and Poplar Sts. About $750,000. C. O. Pfeil, Union Planters Bank Bldg., archt. Noted Feb. 27.

Ky., Ashland—Store and Office—Field Furniture Co. soon receives bids building 6 story, 30 x 145 ft., concrete and brick, on Main St. About $275,000. F. L. Packard, Hayden Bldg., Colo., archt.

O., Canton—School—Bd. Educ. having plans prepared by F. C. Warner, archt., Hippodrome Bldg., Cleveland, for 2 story, 114 x 200 ft., concrete, steel and brick, on 16th and Vine Sts. About $200,000. Noted June 17.

O., Cincinnati—Sales—Cadillac Auto Co., 1038 Gilbert Ave., plans to build 75 x 200 ft., on Gilbert Ave., south of Elsinore St. About $100,000. G. W. Drach, 1701 Union Trust Bldg., archt. Engineer not selected.

O., Cleveland — Commercial—J. Babin, 13661 Euclid Ave., plans to build 4 story, 55 x 140 ft., rein.-con., steel and brick, concrete foundation, at 2226 Prospect Ave. About $75,000. Architect not selected.

O., Cleveland—Commercial—C. H. Snearer Furniture Co., 72 Wymore Ave., plans to build 4 story, 270 x 780 ft. rein.-con., brick and steel, concrete foundation, at 10,022 Euclid Ave. About $150,000. Architect not selected.

O., Cleveland—Commercial—G. Whistler, Hollendan Hotel, East 6th and Superior Sts., plans to build 5 story, 100 x 150 ft., rein.-con., steel and brick, concrete foundation, on East 21st St. and Euclid Ave. About $100,000. Architect not selected.

O., Cleveland—Hotel—Euclid Fairmount Co., East 105th St. and Euclid Ave., plans to build 10 story, 100 x 200 ft., rein.-con., steel and brick, concrete foundation, on East 101st St. and Euclid Ave. About $500,000. Architect not selected.

O., Cleveland—School—Bd. Educ. East 6th and Superior Ave., soon receives bids building 1 story, 100 x 150 ft. rein.-con., brick, steel and stone addition, on Warner Rd. About $200,000. W. R. McCormack, East 6th and Superior Ave., archt.

O., Cleveland—Theatre—Pauled Realty Co., Hippodrome Bldg., plans to build 5 story, 75 x 240 ft., rein.-con., steel and brick, on East 105th St. and Euclid Ave. About $400,000. Architect not selected.

O., Columbus—Business—M. H. Rieser, 66 East Main St., plans to build 3 story, 80 x 130 ft., brick, on Main and 3rd Sts. About $85,000. Stribling & Lum, 85 North High St., archts.

O., Columbus—Store—O. Darst, archt., Brunson Bldg., receives bids about August, razing old structure and building 4 story, 42 x 160 ft., concrete and brick, on South High St., for F. B. Chapman, 1117 East Broad St. About $85,000.

O., Dayton—Club—Catholic Order of Foresters plans to build 2 story, 66 x 150 ft., rein.-con. and brick, concrete foundation, on 5th and High Sts. About $50,000. Address R. M. Percival. Architect not selected.

O., East Cleveland (Cleveland P. O.)—School—Bd. Educ., Williamson Bldg., Cleveland, plans to build 2 story, 100 x 200 ft. rein.-con. steel, brick and stone, here. Bonds for $100,000 voted for project. Architect not selected.

O., Independence—School—Bd. Educ. having plans prepared by R. H. Hinsdale, archt., Bangor Bldg., Cleveland, for 2 story, 80 x 100 ft. brick, steel and stone, on Ryan Ave. About $150,000.

O., Massillon—Commercial — Hess-Snyder Co., Erie St., having preliminary plans prepared by W. R. Powell, archt., 705 Ross Bldg., for 8 story, 65 x 140 ft., steel and brick. About $200,000.

O., Portsmouth—Theatre—S. Labold having plans prepared by C. C. Taylor, archt., 1st Natl. Bank Bldg., for 2 story, 65 x 160 ft., rein.-con. and brick, concrete foundation, on Gallia St. About $100,000.

O., Rittman—Bank—Rittman Savings Bank Co. having plans prepared by R. H. Hinsdale, archt., Bangor Bldg., Cleveland, for 2 story, 50 x 75 ft. brick, steel and rein.-con., on Saywell Ave. About $50,000.

O., Springfield—Home—Salvation Army plans to build home, to include club and hotel. About $90,000. Architect not selected.

O., Springfield—Office—R. C. Gotwald, archt., Gotwald Bldg., soon lets contract building 3 story, 52 x 150 ft., rein.-con. and brick, rein.-con. flooring, concrete foundation, on West Columbia St., for Springfield Metallic Casket Co., Center St. About $60,000. Noted June 5.

O., Springfield—Office—W. A. Myers, Lagonda Ave. and Farlow St., having plans prepared by H. S. Kissell, archt., Gotwald Bldg., remodeling Gotwald Bldg. on Main and Limestone Sts. About $50,000.

O., Wheelersburg—Home—Comrs. Scioto Co. (Portsmouth) soon receive bids for 3 story, 130 x 160 ft. brick, home here, brick foundation. Plans include shops, playgrounds, etc. About $125,000. De Voss & Donaldson, Portsmouth, archts.

Mich., Detroit—Chapel—Providence Hospital, West Grand Blvd. and 14th Ave., having plans prepared by L. Kamper, archt., Book Bldg., for 4 story, 40 x 140 ft., rein.-con., brick and steel, rein.-con. flooring, concrete foundation.

Mich., Detroit—Church—Nunde Methodist congregation, c/o W. E. N. Hunter, archt., 1306 Chamber of Commerce, having plans prepared for 1 story, 88 x 88 ft., rein.-con., brick and steel, wood and tile floor, concrete foundation on Grand River Ave. and Beverly Ct. About $100,000.

Mich., Detroit — Hotel—Detroit-Biltmore Hotel Co., c/o E. H. Johnes, 511 Moffat Blk., having plans prepared by Warren & Wetmore, archts., 16 East 47th St., New York City, for 23 story, 120 x 255 ft., rein.-con., brick and steel, rein.-con. flooring, concrete foundation, on Madison Ave. and Grand Circus Park. About $5,000,000. Noted June 19.

Mich., Detroit—Hotel—Vinton Co., Vinton Bldg., soon lets contract for 3 story, 35 x 200 ft., brick and steel, wood flooring, concrete foundation, on Piquette Ave. About $100,000. R. H. Marr, 1204 Kresge Bldg., archt.

Mich., Detroit—Mercantile—A. Y. Malcolmson, 610 Congress Bldg., had plans prepared by W. C. Palmer, archt., 610 Congress Bldg., for 6 story, 100 x 200 ft., brick and steel, wood flooring, concrete foundation, at 187 Griswold St.

Mich., Negaunee—Church and Chapel—St. Paul's congregation having plans prepared by Van Leyen, Schilling & Keough, archts., 1115 Union Trust Bldg., Detroit, for 1 story, rein.-con. and brick, rein.-con. flooring, concrete foundation. About $150,000.

Mich., Pontiac—School—Bd. Educ. having plans prepared by Perkins, Fellows & Hamilton, archts., 814 Tower Court, Chicago, for 1 story, rein.-con., brick and steel, concrete foundation, on West Huron St. About $80,000.

Mich., St. Louis—School—Bd. Educ. having plans prepared by Cowels & Mutscheller, archts., Chase Bldg., Saginaw, for 2 story, rein.-con., brick and steel addition, concrete foundation. About $50,000.

Ill., Carlinville—High School—Bd. Educ. plans to build high school. About $50,000. W. L. Mounts, pres. Architect not selected.

Buildings (Continued)

Ill., Chicago—Hotel—Argonne Hotel Co., c/o R. C. Harris, archt., 190 North State St., having plans prepared for 10 story, 130 x 170 ft. rein.-con., rein.-con. flooring, concrete foundation, on Sheridan Rd. and Chase Ave. About $900,000.

Wis., Manitowoc—School—Bd. Educ., Dist. No. 3, plans to build 2 story, 70 x 90 ft. rein.-con. and brick, brick foundation. About $50,000. Architect not selected.

Minn., Kinney—Grade School and Gymnasium—Bd. Educ. receives bids about Aug. 9, for 2 story, 116 x 154 ft., rein.-con. and brick. About $175,000. A. W. Kerr Co., 5 Amer. Exch. Bldg., Virginia, archts.

Minn., Virginia—City Hall and Community Bldg.—A. E. Bickford, city clk., receives bids about Sept. 1, for 2 story, 190 x 275 ft., rein.-con. and brick, rein.-con. flooring, concrete foundation, on 1st St., S. About $282,000. A. W. Kerr & Co., Virginia, archts. and engrs.

Minn., Virginia—Court House—Comrs. St. Louis Co., Duluth, having revised plans prepared by Croft & Boerner, archts. and engrs., Palace Bldg., Minneapolis, for 2 story, rein.-con. and brick, rein.-con. flooring, brick foundation. About $250,000. Noted June 19.

Minn., Rochester—Clinic—F. A. Bricker and G. J. Pattison, Fargo, and C. C. Fawcett, Rochester, plan to build 5 story, 46 x 142 ft., brick and concrete dental clinic, brick foundation. About $300,000. Architect not selected.

Kan., Atchison—Memorial Hall—City election July 29 to vote on $125,000 bonds to build memorial hall. Architect not selected.

Kan., Concordia—Hospital—Swedish Baptist Assn. of U. S., West 7th St., plans to build 40 x 65 ft., brick. About $50,000.

Kan., Marysville—Theatre—Turner Theatre Co. rejected only bid received building 2 story, 50 x 132 ft., brick and stone, rein.-con. flooring, concrete foundation. About $53,000. Noted July 3.

Kan., McLouth—High School—Bd. Educ. having plans prepared by W. Saylor & Co., archts., 300 Reliance Bldg., Kansas City, Mo., for 2 story, 64 x 92 ft., concrete, steel and brick, rein.-con. flooring, concrete foundation. About $52,000.

Neb., Chappell—High School and Dormitory—School Bd. plans to build 3 story high school and dormitory, here. About $100,000. R. A. Bradley, Hastings, archt.

Neb., Omaha—Store and Office—Hayden Bros., Brandeis Stores, Home Builders, and Nebraska Natl. Bank plan to build 16 story, 88 x 132 ft. steel, stone and brick, on 17th and Dodge Sts. About $1,750,000. Architect and engineer not selected.

S. D., Sioux Falls—School—Bd. Educ. soon lets contract building 1 and 2 story, 65 x 130 ft. brick and timber, concrete foundation. About $100,000. Holmes & Flinn, 8 South Dearborn St., Chicago, archts.

N. D., Fessenden—High School—School Bd. soon lets contract building 3 story high school. About $60,000. A. Fraser, Minot, archt.

N. D., Minot—Bank and Office—Second Natl. Bank plans to construct 7 story bank and office building. About $50,000.

N. D., Wahpeton—Hospital—Lutheran Deaconess Hospital soon lets contract building 3 story hospital. About $50,000. Magney & Tusler, 450 Bldrs. Exch., Minneapolis, Minn., archts.

Mo., Galena—Court House—Stone Co. plans to build court house. About $50,000. J. S. Houser, presiding judge.

Mo., Jefferson City—Theatre—F. B. Miller, archt., Jefferson City, receiving bids building 57 x 198 ft., rein.-con., steel and brick, rein.-con. flooring, rock foundation, on High St., for W. H. Mueller. About $75,000.

Mo., Lindenwood (St. Louis P. O.)—Church—Congregational church plans to build 1 story, 100 x 150 ft., on Main and East Sts. About $50,000. G. Coman, pastor. Architect not selected.

HIGHWAY—CALIFORNIA

Bids were received by State Highway Comn. (lowest 3) Forum Bldg., Sacramento, building state highway in Lake Co., Div. 1, Route 16, Sect. A, from (A) [illegible] Fairbanks, Willets; (B) Erickson & Peterson, Monadnock Bldg., San Francisco; (C) [illegible] Grant, Smith & Co., Fernwell Bldg., Spokane, Wash. The unit bids were as follows:

	A	B	C
104,600 cu.yd. excavation without classification	$1.12	$1.15	$1.15
300 cu.yd. Portland cement concrete (culverts and monuments), class "A"	24.00	25.00	35.00
3,104 lin.ft. 12-in. corrugated metal pipe	.90	1.00	1.25
956 lin.ft. 15-in. corrugated metal pipe	1.00	1.20	1.55
830 lin.ft. 18-in. corrugated metal pipe	1.25	1.50	1.50
64 lin.ft. 24-in. corrugated metal pipe	1.75	1.75	1.75
34 lin.ft. 30-in. corrugated metal pipe	1.50	2.00	2.00
4 mi. moving and resetting property fences	480.00	300.00	400.00
356 monuments	1.50	1.50	1.50
Extended totals	$131,790	$135,200	$139,520

RESERVOIR—BELLEVUE, OHIO

Bids were received by city, (lowest 3) building impounding reservoir, from (A) F. R. Jones Co., Wayside Rd., Cleveland; (B) Gist Bros., Bellevue; (C) Harrington Bros., 3959 Flad Ave., St. Louis, Mo. The unit bids were as follows:

	A	B	C
117,000 cu.yd. excavation on basis of embankment to El 138.0	$0.39	$0.495	$0.44
104,000 cu.yd. excavation on basis of embankment to E. 137.0	.39	.49	.44
91,000 cu.yd. excavation on basis of embankment to El. 136.0	.39	.485	.44
100,000 cu.yd. rolling embankments	.06	.04	.05
250 cu.yd. core wall—concrete	21.30	17.50	33.00
2,000 cu.yd. core wall—earth	1.75	.90	.60
Seeding (lump sum)	242.00	450.00	100.00
Inlet and outlet pipes	3,790.56	4,415.00	3,970.00
Gate valves (lump sum)	1,448.53	1,785.00	1,350.00
Pumping station (lump sum)	6,347.00	5,650.00	6,150.00
500 cu.yd. excavation for deepening ditch	.70	.75	1.00
18-in. vitrified tile conduit, long line (lump sum)	17,869.65	13,750.00	15,200.00
14-in. c.-i. conduit, long line (lump sum)	18,156.67	13,125.00	16,000.00
18-in. vitrified tile conduit, short line (lump sum)	9,850.91	6,375.00	7,900.00
14-in. c.-i. pipe conduit, short (line (lump sum)	10,177.22	6,525.00	8,100.00
Extended totals	$105,159	$105,840	$108,000

Mo., St. Louis—Administration—St. Louis Mfg. Corp., Div. Genl. Motors Corp., 5401 Bulwer St. soon receives bids building 3 story, 40 x 120 ft. rein.-con. and steel, rein.-con. flooring, concrete foundation at 3809 Union Ave. About $57,600. W. H. K. Kilpatrick, Flint, Mich., engr.

Mo., St. Louis—Church—Chesed Shell Emeth. Society, 931 North 9th St., plans to build 115 x 150 ft. on Kings Highway and Minerva Ave. About $75,000.

Mo., St. Louis—Hospital—Bd. Pub. Serv. receives bids about Aug. 12, building 4 story, concrete, steel and brick, concrete foundation, on 11th and Market Sts. About $190,000. L. R. Brown, city engr.

Mo., St. Louis—Mercantile—E. J. Hess, archt., 3226 Magnolia Ave., soon receives bids building 5 story, 54 x 135 ft., concrete, rein.-con. flooring, concrete foundation, at 1409-11 Washington St., for G. D. Hall Real Estate Co., c/o Martin-Breitt Real Estate Co., Chemical Bldg. Cost to exceed $50,000.

Mo., St. Louis—Theatre—Missouri Theatre Co., c/o Mercantile Trust Co., 8th and Locust Sts., plans to build 2 story, 129 x 130 ft., on Grand and Lucas Sts. About $60,000. Architect not selected.

Tex., Dallas—Office—C. L. Sanger, pres., Dallas Property Owners Ass'n., having plans prepared building 12 story, 100 x 100 ft., rein.-con. office building. About $1,000,000.

Tex., Rockdale—School—City plans to build school. About $75,000. C. H. Page & Bro., Austin Natl. Bank, Austin, archts.

Tex., Weatherford—Hotel—City plans to build 3 story, brick hotel. About $100,000. G. C. Poston, secy. bd. dirs.

Okla., Oklahoma—Auditorium—City plans election July 26 to vote on $750,000 bonds to build auditorium.

Colo., Greeley—School—Greeley School Dist. No. 6 voted $85,000 bonds to build school.

Colo., Hayden—School—School Dist. No. 2 plans election July 19, to vote on $60,000 bonds to build school. L. Kimsey, secy.

N. M., Albuquerque—Hospital—Children's Home Society of New Mexico plans to build orthopedic hospital here. About $200,000. J. S. Reynolds, pres.

Utah, Lehi—Memorial—City having plans prepared by Ware & Treganza, archts., Utah Savings and Trust Bldg., Salt Lake City, constructing 90 x 120 ft. memorial building. About $65,000.

Ariz., Jerome—Stores, etc.—United Verde Copper Co. having plans prepared by A. R. Kelly, archt., 1110 Story Bldg., Los Angeles, for about 100 buildings to consist of stores, residences, etc., rein.-con., to be erected on new townsite near here.

Ariz., Phoenix—Office—C. Korrick, 841 North 2nd Ave., having plans prepared by L. M. Fitzhugh, archt., 208 Noll Bldg., for 4 story office, 50 ft. on Washington St. and 137 ft. on 3rd Ave., also 3 story addition to building adjoining on east.

Ariz., Phoenix—Hotel—M. T. Grier, Jefferson Hotel, is head of syndicate, which is having plans prepared by Postle & Fischer, archts., 140 South Dearborn St., Chicago, for 9 story hotel, here. About $1,000,000.

Wash., Bremerton—Store and Hotel—Mutual Trading Co. plans to build 4 story, 60 x 103 ft., masonry construction and brick wall, rein.-con. flooring, concrete foundation. About $70,000. E. W. Houghton, Lumber Exch. Bldg., Seattle, archt.

Wash., Centralia—Temple—J. H. Wotleb, archt., Olympia, receives bids about August building 3 story, 60 x 120 ft., brick and mill construction, rein.-con. flooring, on Pearl and Magnolia Sts., for B. P. O. E. No. 1083. About $60,000. Noted May 1.

Wash., Olympia—Club—J. H. Wohleb, archt., Capital Natl. Bank Bldg., soon lets contract building 3 story, 60 x 120 ft., concrete and brick, rein.-con. flooring, for B. P. O. E. Lodge. About $60,000.

Wash., Pasco—Hospital—Sisters of St. Joseph having plans prepared by Beezer Bros., archts., Walla Walla, for 1 story, brick, rock foundation.

Buildings (Continued)

Wash., Seattle—Hotel and Store—Essanay Investment Co. plans to build 10 story, probably concrete, stone or brick, on 1st Ave. and Pike St. About $400,000. S. W. Thurston, 116 29th St., pres. Architect not selected.

Wash., Seattle—Store and Office—G. O. Childs plans to build 2 story, 60 x 180 ft., terra cotta and brick, rein.-con. flooring, on 3rd Ave. and Pine St. About $55,000. A. H. Albertson, Henry Bldg., archt.

Wash., Spokane—Temple—B. P. O. E. of Spokane having plans prepared by K. Cutter and E. Baume, archts., Eiler Bldg., for 3 and 5 story, 100 x 142 ft., concrete, brick or tile, on Riverside Ave. Plans include gymnasium, swimming pool, shower baths, locker rooms, etc. About $200,000.

Wash., Tacoma—Office—W. R. Rust, 521 North Yakima St., plans to build 12 story, 65 x 100 ft., on 11th and Pacific Sts. About $750,000. **A. Sutton, Tacoma, archt.**

Ore., Haines—School—School Dist. No. 24, Union Co., soon lets contract building 2 story, 84 x 108 ft., masonry, concrete foundation. About $50,000.

Ore., Portland—Home—Knights of Columbus, Park and Taylor Sts., having preliminary plans prepared building 2 or 3 story, 60 x 100 ft., cement, brick or tile. About $75,000. Architect not selected.

Ore., Portland—Hospital—Comrs. Multnomah Co. having plans prepared by Sutton & Whitney, archts., Lewis Bldg., for rein.-con., rein.-con. flooring, on grounds adjoining University of Oregon Medical School. About $200,000. Noted Feb. 6.

Ore., Portland—Offices, etc.—Mitchell, Lewis & Staver Co., 346 East Morrison St., having plans prepared by Houghtaling & Dougan, archts., Henry Bldg., for 3 story, 100 x 139 ft. rein.-con. automobile business house, rein.-con. flooring, concrete foundation, on Bway. and Everett St., to include sales rooms, offices, service department, second hand department, shop, stock rooms, etc. About $80,000. Noted June 26.

Cal., Eureka — Theatre — Ackerman & Harris, c/o Hippodrome Theatre, San Francisco, having plans prepared by Reid Bros., archts., California-Pacific Bldg., San Francisco, for 2 story, 70 x 130 ft., rein.-con., on 4th and G Sts. About $75,000.

Cal., Fresno—School—Bd. Educ. having plans prepared by Coates & Traver, archts., Rowell Bldg., for high school. About $750,000. R. F. Felchin, Rowell Bldg., engr. Noted June 26.

Cal., Fresno—School—Bd. Educ. having plans prepared by E. J. Kump, archt., Rowell Bldg., for 10 room school and shop building on Edison School site. About $78,000. Noted June 26.

Cal., Fresno—Schools—Bd. Educ. having plans prepared by Glass & Butner, archts., Cory Bldg., for 10 room school on John Muir School site, cost, $75,000; also 12 room addition to Jefferson School, $78,000. Noted June 26.

Cal., Fresno—Schools—Bd. Educ. having plans prepared by E. Matthewson, archt., Cory Bldg., for 2 room addition and shops to Washington School and addition to Lincoln School, cost, $25,000; R. B. Hotchkin, archt., Rowell Bldg., for 10 room school in Arlington Heights, $75,000 and kindergarten at Franklin School, $4000; Coates & Traver, archts., Rowell Bldg., for 6 room addition to Kirk School, $24,000. Noted June 26.

Cal., Fresno—Schools—Bd. Educ. having plans prepared by Swartz & Swartz, archts., Rowell Bldg., for 8 room addition to Longfellow School and 12 room addition and new heating system at Jefferson School $78,000; also 12 room addition to Jackson School, $78,000.

Cal., Lindsay—Hotel—Lindsay Hotel Co. being incorporated with $250,000 capital stock and plans to build 138 room hotel. About $200,000. A. M. Robertson, secy. Architect not selected.

Cal., Los Angeles—Church—Train & Williams, archts., 225 Exch. Bldg., soon receive bids, for 2 story, 92 x 100 ft., rein.-con. and brick, rein.-con. flooring, concrete foundation, on Olivera and Marchesault Sts. for Methodist Episcopal congregation, Wright & Callender Bldg. About $150,000.

Cal., Red Bluff — Court House — Bd. Supervs. Tehama Co. voted $200,000 bonds to build courthouse. Noted June 26.

Cal., Salinas—High School—Trustees Salinas Union High School Dist. voted $250,000 bonds to build high school. R. Kyckhoff, Watsonville, archt.

Cal., San Francisco—Asylum—Pacific Orphanage Asylum plans to build asylum on Ocean Ave. About $500,000. A. H. Jacobs, 110 Sutter St., archt.

Cal., San Francisco—Hospital—A. I. Coffey, archt., Humboldt Bank Bldg., soon receives bids for 6 story, 35 x 100 ft., with wing 35 x 80 ft., rein.-con. and brick, rein.-con. flooring, concrete foundation, on Bush St., for St. Francis Hospital. About $250,000.

Cal., San Francisco—Library—San Francisco Library Trustees having plans prepared by G. A. Lansburgh, archt., Gunst Bldg., for 2 story, concrete, brick and terra cotta, on Sacramento St. About $55,000.

N. S., Halifax—Post Office—R. C. Desrochers, secy. dept. pub. wks., Ottawa, Ont., soon lets contract altering post office here.

N. B., Fredericton — Station—Canadian Pacific Ry., Windsor St. Sta., Montreal, plans to build here. About $250,000. J. M. R. Fairbairn, asst. ch. engr.

Ont., Guelph—Dormitory and Piggery—H. F. McNaughton, c/o Dept. Pub. Wks., Parliament Bldgs., Toronto, soon lets contract building 1 and 3 story, concrete, steel and brick, rein.-con. flooring, concrete foundation, here, for Dept. Agriculture, Parliament Bldgs., Toronto. About $150,000. F. R. Heakes, Parliament Bldgs., Toronto, engr.

Ont., Ingersoll—School—Bd. Educ. having plans prepared by W. G. Murray, archt., Dominion Savings Bldg., London, building 2 story, rein.-con., steel and brick. About $150,000.

Ont., Toronto—College—Bd. Educ. having plans prepared building 3 story, brick and steel, in Parkdale. About $300,000. G. W. Gouinlock, 796 Yonge St.

Sask., Moose Jaw—Office—Sask. Co-operative Stock Yard Co., Ltd., soon lets contract constructing 2 story, 35 x 60 ft. office building and 150 x 200 ft. stockyard, brick, concrete foundation. About $72,000.

B. C., Point Grey—School—School Bd. receives bids in about four weeks building 3 story, rein.-con., brick and stone, rein.-con. flooring, concrete foundation, on Granville St. and 25th Ave., Shaughnessy Dist. About $90,000. R. P. S. Twizell, 837 Hastings St., W., Vancouver, archt. Noted Feb. 20.

Alaska, Kethikan—Bank and Store—Lawton & Moldenhour, archts., Alaska Bldg., Seattle, Wash., preparing plans for 3 story, concrete, rock foundation, here. About $100,000. Owner's name withheld.

BIDS DESIRED

Mass., Attleboro—School—Until July 28, by city, building 2 story, 57 x 106 ft. brick addition, concrete foundation. About $100,000. F. I. Cooper Corp., 33 Cornhill St., Boston, archts.

Conn., Hartford—Business—I. A. Allen, Jr., archt., 904 Main St., receiving bids altering 5 story building on High and Allyn Sts., for G. F. Heublein, 196 Trumbull St. About $50,000. Noted May 22.

Conn., New Britain—School—Until Aug. 1, by Bd. Educ., building 2 story, 64 x 110 ft. brick addition to Normal Training School, on Camp St., rein.-con. flooring, concrete foundation. About $160,000. W. F. Brooks, Lewis and Gold Sts., Hartford, archts. Noted Jan. 30.

N. Y., New Rochelle—School—Until July 30, by Bd. Educ., building 62 x 180 ft., brick, on North Ave. About $200,000. F. G. Frost, 19 West 44th St., New York City, archt.

N. Y., Pelham—High School—Until July 28, by Tooker & Marsh, archts., 101 Park Ave., New York City, building 2 story, 168 x 171 ft., brick and steel, stone flooring, for Bd. Educ. About $115,000. Noted May 8.

Pa., Erie—School—Until Aug. 18, by Bd. School Dirs., for general work, heating, plumbing, electric work, etc., for new East High School. R. S. Scobell, business mgr. school dirs.; W. B. Ittner, Bd. Educ. Bldg., St. Louis, Mo., archt.; advertised in this issue. Noted April 24, under "Miscellaneous."

Pa., Phila.—Club—W. F. Price, archt., 136 South 4th St., receiving bids building 1 and 2 story, 63 x 132 ft. and 26 x 36 ft. stone, on Germantown Lane and Main St., for Womens Club of Germantown. About $100,000.

Pa., Phila.—Home—Until July 29, by G. I. Lovatt, archt., 418 Walnut St., repairing seven 3 story, concrete and brick buildings at St. Johns home on Wyalusing and 49th Sts., varying in size from 22 x 22 ft. to 90 x 300 ft.

W. Va., Morgantown—Home—Until Aug. 12, by Comrs. Monongalia Co., constructing 3 story, 46 x 103 ft. main building and two 2 story, 30 x 68 ft. wings, brick, terra cotta and steel, for Juvenile Detention Home. E. F. Jacobs, 701 Fleming Bldg., archt.

O., Cleveland — Library — O. Coltman, archt., 1375 Euclid Ave., receiving bids building 1 story, 70 x 80 ft., concrete, steel and brick, on East 105th St. and Superior Ave., for Cleveland Public Library Assn., 1375 Euclid Ave. About $50,000.

O., Green (Celina P. O.)—Schools—Until Aug. 9, by Bd. Educ., Beuna Vista, building 2 schools here. About $50,000. F. S. Rusk, Brenson Bldg., Columbus, archt.

O., Mechanicsburg—Until July 31, by R. C. Gotwald, archt., Springfield, building 2 story, brick. About $90,000.

O., Perry—School—Bd. Educ. receiving bids for 1 story, 160 x 160 ft. brick, steel and concrete, on Wilson St. About $75,000. R. H. Hinsdale, Bangor Bldg., Cleveland, archt.

Mich., Detroit—Office—See "Industrial Works."

Minn., Buhl—High School—School Dist. No. 35, St. Louis Co., receiving bids for 3 story, rein.-con. and brick, on Chestnut St. About $250,000. A. W. Kerr Co., 5 Amer. Exch. Bldg., Virginia, archt. and engr. Noted Mar. 27.

Minn., Gilbert—Auditorium—Until Aug. 1, by E. H. Berg, archt. and engr., Eveleth, for 2 story, 100 x 110 ft., rein.-con., brick and steel, rein.-con. flooring, concrete foundation, on Main St., for Corporation of Gilbert. About $100,000.

Minn., Hibbing—Bank—Until July 30, by 1st Natl. Bank, for 2 story, 100 x 125 ft., brick and stone. About $150,000. A. Moorman & Co., 501 Minnesota St., St. Paul, archts. Noted June 19.

Minn., Nopeming—Infirmary—Until Aug. 18, by A. L. Laird, secy. St. Louis Co. Tuberculosis Comn., building 3 story, 40 x 320 ft., rein.-con., brick and steel, rein.-con. flooring, concrete foundation. About $240,000. Holstead & Sullivan, Palladie Bldg., Duluth, archts. and engrs.

Minn., St. Paul—Theatre—Blue Mouse Theatre Co. receiving bids for 2 story, 50 x 150 ft. moving picture theatre on Hennepin Ave. between 7th and 8th Sts. About $70,000. H. Lowrie, Payton Blk., Omaha, Neb., archt.

Mo., St. Louis—Clinic—Until Aug. 12, by Bd. Pub. Serv., City Hall, building 4 story, 50 x 125 ft. brick and rein.-con., concrete foundation, on 14th and Lafayette Sts. About $260,000. L. R. Bowen, 302 City Hall, engr. and archt.

Mo., St. Louis—Mercantile—Until Aug. 1, by W. R. Compton & Co., Merchants Laclede Bldg., altering building on 7th and Locust Sts. About $100,000. Plans include tearing out front and elevators, building vestibule and elevator shafts, and installing high power elevators. La Baume & Klein, Chemical Bldg., archts.

Utah, Lehi—High School—Until Aug. 15, by School Bd., building 2 story, 137 x 160 ft., brick school. About $100,000. Ware & Treganza, Utah Savings & Trust Bldg., Salt Lake City, archts. and engrs.

Buildings (Continued)

Utah, Pleasant Grove—High School—Until Sept. 15, by School Bd building 2 story, 60 x 100 ft. addition. About $50,000. Ware & Treganza, Utah Savings and Trust Bldgfi., Salt Lake City, archts.

Utah, Provo—High School—Until Aug. 15, by School Bd., building 2 story, 135 x 165 ft., on Provo Bench. About $100,000. Ware & Treganza, Utah Savings & Trust Bldg., Salt Lake City, archts. and engrs.

Que., Montreal—Office—Until Aug. 4, by Marice Trust Co., 179 St. James St., building 10 story, 50 x 66 ft., stone, terra cotta and steel. About $350,000. Hogle & Davis, 20 St. Francis Xavier St., archts.

Que., Notre Dame de Grace—Church—Until July 31, by St. Augustine Catholic congregation, Cote St. Antoine Rd., building stone and steel concrete foundation. About $250,000. Audet & Charboneau, 194 Cartier Park, Montreal, archts.

Sask., Indian Head—Office—Until Aug. 12, by R. C. Desrochers, secy. dept. pub. wks., Ottawa, Ont., building here.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★**Mass., Boston**—Office—E. M. Hamlin & Co., 148 State St., let contract building 12 story, brick, steel and concrete, on P. O. Sq., to be known as Bankers' Bldg., to J. J. Prindiville Co., Framingham. About $400,000.

★**Mass., Whitinsville**—Hotel and Houses—Whitin Machine Wks. let contract building 2 story, 50 x 110 ft. hotel and four 2 story, 25 x 40 ft. frame and stucco workmen's houses, to E. J. Ward Co., 82 Foster St., Worcester. About $80,000.

★**Mass., West Warren**—Hotel—Warren Cotton Mills let contract building 3 story hotel for workmen on West Main St., to P. H. Provencal, 124 North St., Ware. About $50,000.

★**Mass., Worcester**—Office, etc.—M. D. Holmes & Sons Co., Salem Sq., let contract building 4 story, 56 x 108 ft., brick and mill construction office and warehouse, concrete foundation, on Portland and Myrtle Sts., to J. J. Roberts, 4 Wall St. About $100,000.

★**Conn., Hartford**—Bank—Mutual Bank & Trust Co., 18 Asylum St., let contract building 2 story brick and marble, rein.-con. flooring, concrete foundation, on Pearl St., to Ellison Constr. Co., 96 Wellington Ave. About $100,000. Noted June 26.

★**Conn., Norwalk** — Business—S. Roodner, Ann St., South Norwalk, let contract building 2 story, 100 x 135 ft. brick, concrete and steel, on Wall St., to T. Robins, 23 Putnam Ave., South Norwalk. About $75,000. Noted Mar. 27.

★**Conn., Norwalk**—Hotel—G. F. Shepard, archt., 14 Kilby St., Boston, let contract to A. R. Malkan & Co., 3 Mechanic St., converting Royal James Hotel on Wall St. into hotel and business building, brick, rein.-con. and steel, rein.-con. flooring, concrete foundation, for Norwalk Realty & Impvt. Co., Ann St., South Norwalk. About $125,000. Noted July 3.

★**N. Y., Brooklyn**—School—Bd. Educ let contract building brick and steel addition to P. S. 73, brick foundation, on McDougal St. and Rockway Ave., to P. Cleary, 115 Marion St. About $208,700. Noted July 17.

★**N. Y., Greensburg**—School—Tooker & Marsh, archts., 101 Park Ave., New York City, let contract, to Oscawana Bldg. Co., 101 Park Ave., New York City, for 2 story brick and steel, brick foundation, for Bd. Educ., here. About $90,000. Noted June 19.

★**N. Y., Jamaica**—Hotel—Essemem Realty Corp., Fulton St., will build 5 story, brick, steel and stone, brick foundation. About $300,000. Work will be done by day labor.

★**N. Y., New York**—Church—Fifth Church of Christ Scientist, 42nd St., let contract building 20 story, 145 x 179 x 200 ft., brick, steel and stone, brick foundation, on Madison Ave., between 43rd and 44th Sts., to W. J. Taylor, 7 East 42nd St. About $3,000,000

★**N. Y., New York**—Office—H. Phipps Estate, 737 5th Ave., let contract building 14 story, 60 x 105 ft., brick and steel, brick foundation, on 46th St. and Madison Ave., to Cauldwell-Wingate Co., 281 4th Ave. About $500,000. Noted July 17.

★**N. Y., New York**—Store, Lofts, etc.—Maynicke & Franke, archts., 25 East 26th St., let contract to J. A. Zimmerman, 18 East 41st St., for 15 story, 50 x 85 ft. brick and steel, brick foundation, at 119 West 41st St., for R. Wurlitzer Co., 113 West 40th St. About $600,000. Noted June 12.

★**N. Y., Port Jervis**—School—Tooker & Marsh, archts., 101 Park Ave., New York City, let contract, to Oscawana Bldg. Co., 101 Park Ave., New York City, for 4 story, brick and steel, brick foundation, for Bd. Educ., here. About $85,000. Noted June 26.

★**N. Y., Schenectady**—Church—St. Luke's congregation let contract building brick church on State St., to M. E. Ryan, 1004 Albany St. About $50,000.

★**N. J., Glassboro**—High School—Bd. Educ. let contract building 2 story, 73 x 142 ft., stone, on Academy St., to Sherman & Sharp, Cape May, about $80,000. Noted June 26.

★**N. J., Hackettstown**—Church—Church of Assumption let contract building 2 story, 50 x 100 ft., with 22 x 30 ft. wings, concrete and stone, to Gallo Bros., Netcong. Noted July 3.

N. J., Newark—School—Bd. Educ. received bid building 4 story, 113 x 223 ft., rein.-con. and steel on Sussex Ave., from F. Kilgus, 13th St., $513,000. Noted June 12.

N. J., Orange—Sanatorium—Bd. Freeholders Essex Co. (Newark) received bids building concrete and steel in Orange Mts. (general contract), from W. G. Sharwell & Co., 377 North 5th St., Newark, $415,818; plumbing, Piper Bros., 112 Brunswick Ave., Trenton, $36,500; heating and piping, Gillis & Geoghehan, 537 West Bway., New York City, $59,500; electrical work, Jandous Electrical Equipment Co., 109 West 31st St., New York City, $34,100; water supply system, M. Averill, 31 Clinton St., Newark, $24,478; sewage disposal plant (in connection), M. Averill, $90,000. Noted June 12.

★**N. J., Plainfield**—School—Bd. Educ. let contract building 2½ story, 55 x 150 ft., brick and steel, brick foundation, to Bandandt & Boerinder, Plainfield. About $140,000. Noted June 26.

★**Pa., Contesville**—Hotel, Theatre, Stores—W. F. Boogar let contract building 2 and 3 story, 150 x 200 ft., brick, steel and rein.-con., on 1st and Main Sts., to Stuckert Co., 1420 Chestnut St., Philadelphia. About $150,000. Noted June 26.

★**Pa., Eddystone**—School—A. Reid, secy. bd. educ. let contract building 2 story, 70 x 80 ft. concrete, brick and timber, to H. L. Morris, Chester. About $70,000. Noted July 10.

★**Pa., Miners Mills** (Wilkes-Barre P. O.)—School—Boro. let contract building 3 story, concrete, steel and brick, concrete foundation, on Main St., to F. Melan, Carey Ave., Wilkes-Barre. About $56,000.

★**Pa., Phila.**—Bank—P. A. Davis, archt., 1713 Sansom St., let contract building 2 story, 80 x 110 ft., brick, at 1645 North Broad St., for Tenth Natl. Bank., to Melody & Keating, 1322 Race St. Noted June 26.

★**Md., Frostburg**—Store—E. B. Prichard & Co. let contract building 3 story, 30 x 165 ft., brick and steel, rock foundation, to O. Gerlach, Frostburg. About $50,000.

★**N. C., Rocky Mount**—Store—H. E. Brewer & Co. let contract building 3 story, to D. G. Rose, Greensboro. About $50,000.

★**O., Cleveland** — Commercial — Altman Furniture Co., 2142 East 9th St., let contract building 4 story, 48 x 117 ft., concrete, steel and brick, on East 152nd St. and St. Clair Ave., to W. I. Thompson Co., 6110 Euclid Ave. About $75,000.

★**O., Springfield**—Bank and Store—Farmers' Natl. Bank, 9 South Limestone St., let contract building 5 story, 85 x 100 ft., rein.-con. and brick, rein.-con. floors, concrete foundation, on Limestone and High Sts., to Frank Hill Smith Co., East [illegible] St., Dayton. About $200,000. Noted July 10.

★**O., Springfield**—School—Bd. Educ. let contract building 3 story, rein.-con. and brick, rein.-con. flooring, concrete foundation, in Ridgewood addition, to Cogswell Bldg. Co., Springfield. About $60,000. Noted July 3.

Mich., Detroit—School—C. A. Gadd, business mgr. Bd. Educ., received bids for 2 story, 125 x 130 ft., rein.-con., brick and steel addition to A. L. Holmes School on Georgia and Crane Aves., masonry, from A. J. Smith Constr. Co., Campau Bldg., $87,879; Corrick Bros., 507 Owen Bldg., $88,900; carpentry, H. M. Martins Co., 221 Moffat Bldg., $28,400; Harcus & Co., 774 Russell St., $27,769; E. Theide, 287 Berlin Ave., $27,212; heating, ventilating and plumbing, Ernst Bros. Co., 35 Bagg St., $57,043; J. O'Connor, Penobscot Bldg., $57,988; J. W. Partland, 51 Park Pl., $39,400. Noted July 10.

★**Mich., Detroit**—Store and Restaurant—I. O. Rosenberg, Majestic Bldg., let contract building 2 story, 57 x 127 ft., rein.-con., brick and steel, concrete foundation on Woodward Ave., to P. H. Lorenze, Peoples Bank Bldg., Moline, Ill. About $100,000.

Then and Now

One year ago there were 101 projects on which bids were wanted.

Today there are 220 such jobs.

How many will there be on Aug. 1?

Well, on Aug. 1, 1918, there were 129—an increase of 20% in two weeks.

Using the same rate for the same period of 1919, gives 282 as the number of jobs on which bids will be wanted on Aug. 1, 1919.

But, prophecy aside, here is a comparison of *Then* and *Now*:—

	July 18 1918	1919
Streets and Roads	29	64
Federal Government	25	41
Bridges	12	10
Buildings	11	47
Industrial Works	6	3
Sewers	5	16
Excavation and Dredging	4	8
Water Works	2	12
Miscellaneous	7	19

A 218% IMPROVEMENT

Buildings (Continued)

Mich., Detroit—**Store and Roof Garden**—Smith, Hinchman & Grylls, archts., 710 Washington Arcade, receiving bids for 2 story, 58 x 97 ft., brick and steel, rein.-con. flooring, concrete foundation, on Woodward Ave. and Stimson Pl., for A. S. Stanley and W. Brooks, c/o architects.

★**Mich., Ferndale (Oakland P. O.)**—School—Bd. Educ. let contract building 1 and 2 story, 138 143 ft., rein.-con. and brick, rein.-con. flooring, concrete foundation, on Woodward Ave., to W. H. Mueller, 1711 Ford Bldg., Detroit. About $100,000.

★**Mich., Port Huron**—Bank—First Natl. Exch. Bank let contract for 2 story, brick and steel, concrete foundation, on Huron Ave. and Quay St., to Hoggson Bros., 485 5th Ave., New York City. About $125,000.

★**Mich., Port Huron**—School—Bd. Educ. let contract building 2 story, rein.-con., brick and steel addition to Washington School, to A. W. Schultz, Port Huron, $52,500. Noted July 10.

★**Ill., Chicago**—Office—E. M. Willoughby & Co., 7 West Madison St., let contract improving and altering Unity Bldg. at 127 North Dearborn St., to Longacre Constr. Co., 180 North State Ct. About $250,000.

Wis., Eau Claire—Church — Holmes & Flinn., archts., 8 South Dearborn St., receiving bids building 1 story, 40 x 90 ft., brick, rein.-con. and stone, rein.-con. flooring, concrete foundation, on 3rd St. and Bway., for 1st Congregational Church. About $125,000. Noted May 22.

★**Minn., Cloquet**—High School—Bd. Educ. let contract building 3 story, 80 x 200 ft., rein.-con., brick and steel, rein.-con. flooring, concrete foundation, on Main St., to Genl. Constr. Co., Builders' Exch., Minneapolis, $169,450. Noted April 10.

★**Minn., Cloquet**—High School—Bd. Educ. let general contract building 3 story, 94 x 200 ft., on 6th St. and Caulton Ave., to Laurence Constr. Co., 544 Builders' Exch., Minneapolis, $169,500; plumbing and heating to H. Gazett, 322 Superior St., E. Duluth, $28,300.

★**Minn., Duluth** — Grade School — Bd. Educ. let contract building 2 story, 80 x 120 ft., rein.-con., brick and steel, brick foundation, on Franklin St., to H. Fawcett, Missabe Blk. About $85,000. Noted June 19.

★**Minn., Moorhead**—School—Bd. Educ. let contract building 2 story, to N. N. Malvey, Moorhead, $50,930. Noted June 19.

★**Ark., Russellville**—Mausoleum—H. B. Rockwell let contract building 1 story, 50 x 75 ft., rein.-con. and stone, to C. Bryan, East Walnut St., Pasadena, Cal. About $50,000, cost plus percentage basis.

★**Utah, Salt Lake City**—Chapel—Mormon Church, 34th Ward, let contract building chapel to Ashton Impvt. Co., South Temple St., $55,148.

★**Utah, Salt Lake City**—School—University of Utah let contract completing 3 story training school on 13th St., E., to Rudine & Chytraus, Salt Lake City, $54,674.

★**Wash., Snoqualmie**—Theatre—Sandel & Bennett having plans prepared by E. W. Houghton, archt., Lumber Exch. Bldg., Seattle, for 1 story, 32 x 80 ft., concrete. Work will be done by day labor. Cost to exceed $50,000, including equipment.

★**Wash., Tacoma**—Office—W. R. Rust, 521 North Yakima St., let contract building 12 story, 65 x 100 ft., steel frame, wood rimmed exterior, to J. E. Bonnell, 311 South 9th St. About $750,000, cost plus percentage basis.

★**Cal., Los Angeles**—School—Bd. Educ. let contract building 2 story, 132 x 220 ft., brick and hollow tile, rein.-con. flooring, concrete foundation, on East 7th St., to J. V. McNeil, H. W. Hellman Bldg., $88,190. Noted July 3.

★**Cal., San Jose**—Assembly Hall—G. B. McDougall, state archt., Forum Bldg., Sacramento, let contract building 2 story, rein.-con., at State Normal School, here, to E. T. Leiter & Son, Call Post Bldg., San Francisco, $74,887. Noted July 17.

HIGHWAY—WASHINGTON

Bids were received by State Highway Comn. (lowest 3), Olympia, for constructing highway from Toledo to Forest, Lewis Co., from (A) T. M. Morgan, Auburn; (B) Kaiser Paving Co., 923 Joshua-Green Bldg., Seattle; (C) G. A. Ferguson, Seattle. The unit bids were as follows:

	A	B	C
2.5 acres clearing	$150 00	$200 00	$200 00
1.2 acres grubbing	150 00	200 00	300 00
7,400 cu.yd. common excavation	70	60	1 00
7,400 cu.yd. loose rock excavation	1 25	2 00	1 50
200 cu.yd. solid rock excavation	2 00	4 00	3 00
10,005 cu.yd. subgrade excavation	95	60	1 00
10,920 cu.yd. overhaul x 100 ft	05	04	06
80,817 sq.yd. preparing subgrade	07	05	05
80,817 sq.yd. concrete pavement	2 05	2 23	2 25
12,250 sq.ft. pavement reinforcing metal	04	03	10
70 lin.ft. pavement header	60	75	1 00
1,260 lin.ft. concrete gutter	30	1 00	1 00
2.4 cu.yd. concrete, 1st class	30 00	25 00	30 00
15.0 cu.yd. concrete, 2nd class	20 00	20 00	28 00
160 lb. steel reinforcing bars	10	10	10
68 lin.ft. reinforced concrete pipe, 12-in. dia	1 00	1 50	2 00
64 lin.ft. reinforced concrete pipe, 18-in. dia	1 50	3 00	3 50
64 lin.ft. reinforced concrete pipe, 24-in. dia	3 50	5 00	6 00
64 lin.ft. reinforced concrete pipe, 30-in. dia	5 00	7 00	8 00
64 lin.ft. tile drain, 6-in. dia	75	50	1 00
630 lin.ft. guard rail	35	60	1 00
Extended totals	$189,200	$199,411	$209,452

HIGHWAY—WASHINGTON

Bids were received by State Highway Comn. (lowest 3) Olympia, for constructing highway from Olympia to Tenino, Thurston Co., from (A) Alberson, Cornell & Simpson, Tacoma (awarded contract); (B) Kaiser Paving Co., 923 Joshua-Green Bldg., Seattle; (C) Puget Sound Bridge & Dredging Co., Seaboard Bldg., Seattle. The unit bids were as follows:

	A	B	C
7,250 cu.yd. common excavation	$0 75	$0 50	$0 80
7,250 cu.yd. loose rock excavation		2 00	2 00
9,940 cu.yd. subgrade excavation	80	50	80
420 cu.yd. overhaul x 100 ft	06	05	05
79,700 sq.yd. prep. of subgrade	05	05	10
79,700 sq.yd. one course conc. pavement	2 55	2 65	2 59
800 sq.ft. pavement reinforcing metal	05	05	05
300 lin.ft. pavement header	1 00	1 00	90
300 lin.ft. reinforced concrete gutter	2 00	1 00	1 00
18.1 cu.yd. concrete, 1st class	30 00	30 00	22 00
18.1 cu.yd. concrete, 2d class	25 00	25 00	20 00
1,760 lb. steel reinforcing bars	10	10	10
1,760 lin.ft. plain concrete pipe, 12-in.	2 00	1 50	2 00
1,760 lin.ft. reinforced concrete pipe, 18-in.	4 00	3 00	3 50
1,760 lin.ft. tile drain, 6-in.	75	75	75
Extended totals	$221,694	$224,865	$229,059

★**N. B., Moncton**—School—School Bd. let contract building concrete and brick, concrete foundation, to R. A. Corbett, 272 Douglas St., St. Johns. About $231,000. Noted Apr. 3.

★**Que., Three Rivers**—College—Dept. Pub. Wks., Quebec, let contract building 4 story, 80 x 100 ft. concrete, steel and brick, concrete foundation, on Notre Dame St., to Bellefeuil & Trepanier, St. John St., Quebec. About $150,000.

★**Que., Three Rivers**—Theatre—C. Lafland, archt., Three Rivers, let contract to T. Dugre, Three Rivers, building 50 x 100 ft. concrete, concrete foundation, on Notre Dame St. here for T. Trow, Port Henry, N. Y. About $50,000. Noted June 26.

★**Ont., Barrie**—School—School Bd. let contract building 2 story, brick addition to West Ward School, to Ball Planing Mill Co., Barrie, $66,719. Noted June 26.

★**B. C., Point Grey**—School—School Bd. let contract building 3 story., rein.-con. and brick, concrete foundation, on Tupper and Ash Sts., Shaughnessy Dist., to Adkison & Dill, 707 Welton Bldg., Vancouver. About $73,300. Noted June 5.

★**B. C., Vancouver**—Bank and Office—Somerville & Putnam, archts, London Bldg., let contract to Hodgson, King & Marble, 608 London Bldg., building 3 story, 70 x 103 ft., rein.-con., rein.-con. flooring, concrete foundation, on Hastings and Seymour Sts., for Union Bank. About $300,000. Noted April 3.

Federal Government Work

PROPOSED WORK

Md., Annapolis—Laundry—Spec. 4006, Bureau Yards & Docks, Navy Dept., Wash., D. C., plans to build addition to laundry here. About $50,000.

Mich., Sault Ste. Marie—Revetment—U. S. Engr. Office, Sault Ste. Marie, having plans prepared for rebuilding 1¼ mi. revetment at E pier, St. Clair Flats ship canal, involving wooden piling 6 ft. on centers.

Wash., Puget Sound—Building—Spec. 4009, Bureau Yards & Docks, Navy Dept., Wash., D. C., plans to build extension to Building No. 178 here. About $30,000.

Oregon—Road Work — Bureau Pub. Roads, Portland, plans to survey Florence-Eugene Rd.

Cal., San Diego—Water and Sewer Systems and Fuel Oil Reservoir—Spec. 4007—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans to build, here. About $225,000.

H. T., Pearl Harbor—Torpedo Racks—Spec. 4008—Bureau Yards & Docks, Navy Dept., Wash., D. C., plans to build, here. About $28,000.

BIDS DESIRED

R. I., Newport—Removing Boulders—Until Aug. 15, by U. S. Engr. Office, Newport, removing boulders, etc., from Point Judith Harbor of Refuge; advertised in this issue.

N. J., New Brunswick—Boiler—Until Aug. 4, by Treas. Dept., Wash., D. C., installing boiler, etc., in post office, here.

Pa., Phila.—Repairing Dike—Until Aug. 19, by U. S. Engr. Office, Phila., repairing dike in Delaware River at Artificial Island; advertised in this issue.

D. C., Wash.—Grading—Until July 31, by Dist. Comrs., Dist. Bldg., grading and improving streets, roads and avenues; advertised in this issue.

Federal Government Work (Continued)

D. C., Wash.—Paving—Until Aug. 12, by Dist. Comrs., Dist. Bldg., resurfacing asphalt pavements during year, involving 20,000 sq.yd. asphalt on 6 in. concrete base, 25,000 yd. asphalt surface, 2½ in. before compression, and 35,000 cu.ft. asphalt binder; advertised in this issue.

D. C., Wash.—Sidewalks—Until Aug. 4, by Dist. Comrs., Dist. Bldg., laying 50,000 sq.yd. cement sidewalks; advertised in this issue.

Miss., Vicksburg—Levee Work—Until July 31, by Office of 3rd Mississippi River Dist., P. O. Box 404, building and enlarging levee; advertised in this issue.

Mo., Fayette—Post Office—Until Aug. 29, by Treas. Dept., Wash., D. C., building, here. About $75,000.

Mo., Kansas City—Post Office—Until Sept. 2, by Treas. Dept., Wash., D. C., building extension to post office, here. About $30,000.

N. M., Las Vegas—Bridges—Until July 28, by Bur. Pub. Rd., U. S. Dept. of Agriculture, 218 Luna-Strickler Bldg., Albuquerque, building four 75 ft. span timber bridges on Projects Nos. 2, 3 and 4, Glorietta-Panchuela Rd., involving 228 class "C" concrete, 100 cu.yd. excav. and 18,780 lb. bridge iron. J. S. Bright, dist. engr.

Cal., Mare Island—Torpedo Storage and Compressor Building—Spec. 3991—Until Aug. 15, by Bureau Yards & Docks, Navy Dept., building, here. About $60,000. Noted July 3.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract)

★**N. Y., Brooklyn**—Cranes—Spec. 3933—Bureau Yards & Docks, Navy Dept., Wash., D. C., let contract furnishing cranes for Shipbuilding Ways No. 1, here, to Niles-Bement-Pond Co., 111 Broadway, New York City, $131,765 (150 days). Noted July 10.

★**N. Y., Stapleton**—Gas Mains—Treas. Dept., Wash., D. C., let contract installing gas mains in Marine Hospital, here, to Hickey Contg. Co., 841 Bway., New York City, $1200 (14 days). Noted July 10.

★**Va., Craddock**—School—U. S. Housing Corp., 413 G St., N. W., Wash., D. C., let contract building a 2 story, 150 x 278 ft. brick grammar schol, here, to E. Linher Co., 831 Cherry St., Phila., Pa., $125,000. Noted Apr. 24.

★**W. Va., South Charleston**—Cranes—Bureau Yards & Docks, Navy Dept., let contract installing electric traveling cranes in open hearth, forge, furnace and machine shops and heat treatment building, here, to Cleveland Eng. & Crane Co.; Wyckliffe, O., (9) and (13), 194,870; Manning, Maxwell & Moore, 119 West 40th St., New York City, (5), (6), (10) and (12), $245,201; Morgan Eng. Co., Alliance, O., (2), (3), (4), (7) and (8), $432,990. Noted May 29.

N. C., Wilmington—Officers' Quarters—Treas. Dept., Wash., D. C., received bids July 15, building medical officers' quarters, here, from Morton & Cox, 714 South 7th St., $8238; King Lumber Co., Charlottesville, Va., $9994. Noted June 26.

★**Fla., Pensacola**—Dry Dock—Emergency Fleet Corp. let contract building 5000 ton Crandall type dry dock, here, consisting of five 40 x 100 ft. floating pontoons, 10 ft. deep, to Aberthaw Constr. Co., 27 School St., Boston, Mass. About $450,000.

★**Ind., Evansville**—Water Mains—Treas. Dept., Wash., D. C., let contract installing water mains and repairing plumbing system at Post Office, here, to H. G. Newman Plumbing Co., 511 U 4th St., $7450, (90 days). Noted July 10.

S. D., Rapid City—School—C. Sells, comr. Indian Affairs, Wash., D. C., received bids July 16, building school, here, from W. D. Lovell, 1415 South East 8th St., Minneapolis, Minn., $57,700, (250 days); A. Motschmann Constr. Co., Security Bldg., Chicago, Ill.; $57,900, (300 days). Noted June 26.

Mont., Bozeman—Road Work—Bureau Pub. Roads, Missoula, received bids June 30, grading and draining (1) 5.8 mi. West Gallatin National Forest Rd., 16 ft. wide, (2) 3.7 mi. West Gallatin-Squaw Creek National Forest Rd., 16 ft. wide, from Cliffton, Applegate & Toole, Anaconda (1) $19,467; N. Storey, Bozeman, (1) $20,052, (2) $18,472; P. O'Connor, Missoula, (1) $20,457; Lord Constr. Co., Hamilton, $18,995. Noted June 19.

Washington—Road Work—Bureau Pub. Roads, U. S. Dept. of Agriculture, 628 Post Office Bldg., Portland, Ore., received bids building McClellan Pass Rd., here, from H. Pederson, Alaska Bldg., Seattle, $303,816; Everett Constr. Co., Hewitt and Bond Sts., Everett, $423,760.

Miscellaneous

PROPOSED WORK

Coal Bin—Buffalo, N. Y.—Donner-Union Coke Co., Bell St., soon receives bids for concrete and steel coal bin. About $70,000.

Monument—Endicott, N. Y.—Endicott, Johnson & Co., 753 Bleeker St., Utica, plan to build monument, here. About $100,000. M. Rillo, chn. O. Ruotola, New York City, archt.

Park Improvements—Pittsburgh, Pa.—City voted $1,815,000 bonds to improve park and playground. Noted Jan. 30 under "Streets and Roads."

Subway—Pittsburgh, Pa.—City voted $6,000,000 bonds to build subway. N. S. Sprague, ch. engr. dept. pub. wks. Noted Feb. 20.

Sewer Pipe, etc.—Wilkes-Barre, Pa.—F. H. Gates, city clk., soon lets contract furnishing and delivering 2300 ft. 12 and 24 in. terra cotta pipe, 50 pieces 12 in. terra cotta bends, brick, sewer inlets and manhole castings. Portland cement and building sand. M. C. Murray, supt. streets and pub. impvts.

Water Pipe—Detroit, Mich.—J. A. Martin, Comr. Purchases and Supplies, Municipal Courts Bldg., soon lets contract furnishing 3115 tons 30 in. class "C" c.i. water pipe, f.o.b. cars Detroit. G. H. Fenkell, 232 Jefferson Ave., engr.

Harbor—Glace Bay, N. S.—Dept. Pub. Wks., Ottawa, soon receives bids improving harbor for Dominion Government. About $50,000. E. Lafleur, c/o Dept. Pub. Wks., Ottawa, engr.

Harbor Improvement—St. John, N. B.—Dept. Pub. Wks., Ottawa, Ont., receives bids about Aug. 1 improving harbor here. R. C. Desrochers, secy.

Harbor Improvements, Dry Dock—Champlain, Que.—Dept. Pub. Wks., Ottawa, Ont., receives bids about Aug. 1, improving harbor and building drydock here. About $55,800 and $207,000 respectively. R. C. Desrochers, secy.

Wharf—St. Francois du Sud, Que.—Dept. Pub. Wks., Ottawa, soon receives bids rebuilding wharf, for Dominion Government. About $30,000. E. Lafleur, c/o Dept. Pub. Wks., Ottawa, engr.

Breakwater—Depot Harbor, Ont.—Dept. Pub. Wks., Ottawa, having plans prepared and soon receives bids reconstructing timber breakwater, here. About $34,000.

Harbor Improvements—Port Dover, Ont.—Dept. Pub. Wks., Ottawa, soon receives bids improving harbor, here. About $50,000. E. Lafleur, c/o Dept. Pub. Wks., engr. Noted Apr. 18, 1918.

Subway—Windsor, Ont.—City plans memorial subway under Detroit River. About $6,000,000. J. Brian, city engr.

Grand Stand, etc.—Regina, Sask.—Dept. Pub. Wks., Regina, soon receives bids building 75 x 90 ft. steel grand stand, rein.-con. flooring, concrete foundation, 190 x 240 ft. steel and concrete arena and 72 x 190 ft. brick stable, concrete foundation., on Exhibition Grounds. Total cost, $150,000.

Harbor Improvements—Vancouver, B. C.—Dept. Pub. Wks., Ottawa, Ont., receives bids about Aug. 1, improving harbor here. About $18,000. R. C. Desrochers, secy.

Harbor Improvements—Victoria, B. C.—Dept. Pub. Wks., Ottawa, Ont., receives bids about Aug. 1, improving harbor here. About $21,000. R. C. Desrochers, secy.

BIDS DESIRED

Fishway—Lawrence, Mass.—Comrs. Fisheries and Game, received bids July 14 building rein.-con. fishway, from G. T. Seabury, Inc., 44 Washington St., Providence, R. I., $18,549; S. C. Sperry Co., Inc., 300 Main St., Cambridge, $24,576; Collins Constr. Co., 22 Birch St., $24,981. Noted July 3.

Fire Alarm Cables—Hartford, Conn.—Until July 29, by Bd. Contr. & Supply furnishing 750 ft. each of Nos. 15, 20, 25, 35, 40 and 50 wire cables and 3000 ft. of No. 25.

Boilers, etc.—Central Islip, N. Y.—Until July 29, by State Hospital Comm., Capitol, Albany, for one 600 h.p. boiler, 4 stokers, etc., for Central Islip State Hospital, here; advertised in this issue. Noted June 19.

Fence, etc.—New York, N. Y.—Until July 28, by C. B. Snyder, supt. school bldgs., Municipal Bldg., for new w.i. fence and gates at Evander Childs High School, 184th St., Morris and Crescent Aves., Bronx Boro.

Gasoline—New York, N. Y.—Until Aug. 1, by F. L. Dowling, pres. Manhattan Boro., furnishing and delivering 32,000 gal. gasoline.

Pier—Swinburne Island, N. Y.—Until Aug. 7, by L. E. Cofer, health officer, Port of New York, Rosebank, S. I., building and repairing Landing Pier, Quarantine Sta.; advertised in this issue.

Transmission Lines—Hackensack, N. J.—See "Sewers."

PESSIMISTS, ATTENTION!

Just one year ago we were grateful for the fact that 23 contracts, valued at $2,425,000, were let in a single week. Bids were wanted on only 9 projects. In the corresponding week of this year (1919), *Engineering News-Record* shows that 50 contracts were awarded, aggregating $10,442,000, while bids are asked on 44 projects.

These figures afford a certain comparison between the prosperity of war time and that of peace.

The destruction season is over; the construction season is here.

Miscellaneous (Continued)

Garbage Incinerator and Chimney — Monessen, Pa.—Until July 30, by J. E. Pittman, boro. secy., building garbage incinerator plant consisting of 2 units with 10 ton capacity to each unit. Chester & Fleming, Union Bank Bldg., Pittsburgh, engrs.

Bulkhead—Phila., Pa.—Until Aug. 5, by Dept. Wharves, Docks and Ferries, Bourse Bldg., constructing with appurtenant work of Schuylkill River Bulkhead, west side, south of Penrose Ferry Bridge. Norman & Stamm, Bourse Bldg., engrs.; advertised in this issue.

Tracks—Phila., Pa.—Until Aug. 19, by G. T. Atkinson, asst. dir. dept. city transit, 1211 Chestnut St., constructing tracks of Frankford Elevated Ry., on elevated structure on Front St., Kensington Ave. and Frankford Ave., between Callowhill and Harrison Sts., about 5 6-10 mi. long. Contr. No. 562; work includes furnishing and laying about 11,310 mi. single track, of which 38,900 lin. ft. will be laid in stone ballast and 20,800 lin. ft. will be laid with short ties bedded in concrete; advertised in this issue.

Silo—Savannah, Ga.—Until Aug. 28, by Comrs. Chatham Co., building rein.-con. silo, 200 ton capacity, on county farm.

Levee—Lake Providence, La.—Until July 30, by Bd. State Engrs., New Orleans Court Bldg., New Orleans, for enlarging (river-side) of Wilton-Goodrich Levee, East Carroll Parish, involving 225,000 cu.yd. levee work. F. M. Kerr, ch. state engr.

Wrecking and Removing—Chicago, Ill.—Until Aug. 7, by L. F. King, clk. sanitary dist., 910 South Michigan Ave., wrecking and renewing westerly portion of power house of Northwestern Elevated R.R. and adjoining tunnel and widening easterly side of south branch North 16th St.; advertised in this issue.

Steam Road Roller—Sheboygan, Wis.—Until Aug. 2, by C. U. Boley, city engr., delivering steam road roller, 15-20 tons capacity, f.o.b. Sheboygan. Cost between $20,000 and $30,000. Noted July 3.

Pumps, Boilers, etc.—Sibley, Ia.—Until Aug. 6, by town, furnishing any or all of following equipment: One 250 h.p. Heine or Stirling water tube type boiler 180 lb. pressure, hand fired with shaker grates, 1 feed water heater, open, 500 h.p. series type to use with exhaust steam heating system, 1 feed water meter, wier type, maximum capacity 20,000 lb. water per hour; one 4 in. steam meter, to record amount of live steam let into exhaust heating system by automatic valve, 1 boiler feed water pump, steam driven, 7½ in. x 4½ in. x 10 in., one 6 in. angle valve, one 6 in. gate valve, 6000 fire brick, 20,000 red brick, 4000 lb. fire clay. J. J. Shoemaker, supt.; advertised in this issue.

Boilers and Generators—St. John, Kan.—Until Aug. 6, by city clk., furnishing two 80-hp. boilers and two generators. Burns & McDonnell, 400 Interstate Bldg., Kansas City, Mo. engrs.

Electric Distributing System—Millville, Utah—Until Aug. 4, by Town Council building electric distribution system for heat, light and power. About $30,000.

Breakwater—Shippigan Gully, N. B.—Until Aug. 5, by R. C. Desrochers, secy. dept. pub. wks., Ottawa, Ont., repairing breakwater here.

Wharf—Grosse Isle, Que.—Until Aug. 5 by R. C. Desrochers, secy. dept. pub. wks., Ottawa, Ont., building extension to eastern wharf, here.

Water Meters—Ottawa, Ont.—Until July 30, by Bd. Control, installing 351 water meters, varying in size from ⅝ in. to 8 in. About $40,000. A. F. McCallum, engr. Noted Feb. 13, under waterworks.

Wharf and Breakwater—Port Elgin, Ont.—Until Aug. 5, by R. C. Desrochers, secy. dept. pub wks., Ottawa, Ont., repairing wharf and rebuilding portion of breakwater here.

Safety Cars—Saskatoon, Sask.—Until Aug. 20, by C. J. Yorath, city comr., delivering on or before Dec. 1, 5 fully equipped one-man safety cars here; advertised in this issue.

Turbines, Generators, etc.—Saskatoon, Sask.—Until Sept. 23, by C. J. Yorath, city comr., for (1) steam turbine, alternating current generator, switchgear equipment, (2) surface condensor and condensor auxiliaries; advertised in this issue.

Telephone Lines—Edmonton, Alta.—Until Aug. 15, by Dept. Railways, building 400 mi. telephone lines from Pembina to Ft. Assinboine and from here to Clyde. About $60,000.

Sluices—Victoria, B. C.—Until July 30, by Inspector of Dykes, Victoria, building rein.-con. sluices with excavation, back fill and crib work in Masqui Dyking Dist., for Provincial Government. About $12,000. Work involves 4400 cu.yd. earth excav., 3000 cu.yd. earth fill and 280 cu.yd. rein.-con. E. A. Wilmot, Victoria, engr.

PRICES AND CONTRACTS AWARDED

(★Indicates award of contract.)

Paving Blocks—Fall River, Mass.—City received bids furnishing 80,000 wood blocks, from Jennison Wright Co., 6 Beacon St., Boston, $83.25 per 1000, J. W. Hahn, 166 Devonshire St., $48.50 for 4 in. brick blocks and $44.50 for 3 in. brick blocks.

Freight-Handling Trailers and Trucks—New York, N. Y.—E. S. Walsh, supt. pub. wks., Capitol, Albany, received bids furnishing, delivering and testing freight-handling trailers and stevedore freight-handling trucks for Barge Canal Terminals, here. Contr. 112, from Mercury Mfg. Co., 4118 South Halsted St., Chicago, $6333; Lansing Co., 492 Broome St., New York City, $9250. Noted June 19.

Cast Iron Pipe—Jersey City, N. J.—City received lowest 3 bids furnishing and delivering c.i. water pipe, from J. Fox, 315½ Communipaw Ave., $47.25 per ton; Warren Fdry. Co., 11 Bway., New York City, $47.25; Camden Iron Wks., Line St. and Cooper's Creek, $47.75. Noted June 26.

★**Pipe—Phila., Pa.**—Water Bureau let contract furnishing c.i. pipe, to Donaldson Iron Co., Phila., $30,750.

★**Cap — Yorkhaven, Pa.** — Yorkhaven Water & Power Co. will build concrete cap to close low spillway in main dam, thus preventing water waste and slightly increasing operating head, involving 1000 cu. yd. concrete. About $30,000. Work will be done by day labor.

★**Wharves, Docks, etc.—Savannah, Ga.**—Seaboard Air Line Ry., Royster Bldg., Norfolk, Va., let contract rebuilding portion of Hutchinson Island Terminal facilities, here, to G. E. Hillyer, Blum Bldg., Jacksonville, Fla. Work includes restoration of wharves, docks, sheds, etc.

★**Lakeshore Protection—Racine, Wis.**—Racine Co. let contract building 4400 lin.ft. double row wood pile lakeshore protection with stone filling, to Great Lakes Dredge & Dock Co., 1000-1004 South Michigan Ave., Chicago, $161,000. Noted July 3.

Boiler and Stoking Plant—Austin, Minn. State Bd. Control, Capitol, St. Paul, let contract installing boiler at electrical plant, here, to Babcock & Wilcox Co., 140 South Dearborn St., Chicago, $12,177; stoker, to Robinson, Carey & Sands, 4th and Wacouta Sts., St. Paul, $7440.

★**Road Oil, Vitrified Brick, etc.—St. Louis Mo.**—Dept Streets and Sewers, 317 City Hall, let contracts furnishing 200,000 gal. light-grade No. 0432 road oil, to Standard Asphalt and Refining Co., 208 South La Salle St., Chicago, $24,000; 50,000 2¾ vitr. brick, to Hydraulic Press Brick Co., Central Natl. Bank Bldg., at $28.65; eighty-five 3½ and two hundred and twenty-seven 3¾ square limestone, to Union Quarry & Construction Co., 4687 Natl. Bridge Rd., $7.90 and $7.94 respectively.

★**Dock — Seattle, Wash.** — Jordan Terminal Co. let contract building 80 x 400 ft., creosoted piling dock in industrial addition, to J. H. Dirkes Co., Henry Bldg. About $30,000.

★**Cotton Compress—Los Angeles, Cal.**—City Harbor Comn. let contract furnishing and installing high density cotton compress on city dock at San Pedro Harbor, to Southwark Fdry & Machine Co., subsidiary of Baldwin Locomotive Wks., $79,973 Noted June 19.

★**Dam, etc.—St. Stephen, N. B.**—Maritime Trust Co., let contract building concrete dam, power house and 2 wheel pits, to L. Wheaton, 26 South Park St., Halifax, N. S. About $35,000, cost plus 10 per cent. basis. Work involves 700 cu.yd. rock and earth excav., 550 cu.yd. rein. and mass concrete, coffer dam, purchasing two 56 in. turbines and one generator.

★**Wharf—Ha Ha Bay, Que.**—Port Comn. of Chicoutimi let contract building concrete wharf, to J. G. White & Co., 43 Exchange Pl., New York City. About $400,000.

★**Repairs to Pier—Ottawa, Ont.**—Dept. Pub. Wks., let contract repairing South Pier at Burlington Channel, to Ottawa Contractors, Ltd., Elgin St. About $27,940 (unit prices). Noted June 19.

★**Dam, etc.—Parry Sound, Ont.**—City let contract building dam, concrete power house and earth fill, in connection with municipal power plant, to W. M. Fletcher, 151 Bloor St., Toronto. About $64,000.

★**Breakwater—Port Arthur, Ont.**—Dept. Pub. Wks. let contract building breakwater at Bare Point, to Chambers McQuigg, Port Arthur, $150,000. Noted June 19.

★**Breakwater — Port Colborne, Ont.** — Dept. Pub. Wks., Ottawa, let contract repairing breakwater, to J. M. Hogan, Port Colborne, $34,325. Noted July 10.

★**Filling—Toronto, Ont.**—City will fill 64,000 cu.yds. Gerrard St., between Leslie St. and Greenwood Ave. Work will be done by City. Constr. Dept. About $53,000. R. C. Harris, city engr.

★**Aluminum—Portage La Prairie, Man.**—Dept. Pub. Wks., Winnipeg, let contract for aluminum for constructing transmission lines, to Northern Aluminum Co., $33,598.

★**Steel—Portlage La Prairie, Man.**—Dept. Pub. Wks., Winnipeg, let contract for steel for constructing transmission lines, to Canadian Bridge Co., 415 Paris Bldg., Winnipeg. $98,049.

Labor Restless in Chicago

Chicago, July 19, 1919.

The complicated strike situation in Chicago was intensified Friday, July 18th, when the Building Construction Employer's Association called a lock-out on all construction work in Chicago. The particular strike which caused this action was that of the Carpenters, for $1.00 an hour, their previous wage being 85c. and the compromise figure offered them but rejected being 92½c. As the past month has been one succession of tie-ups with laborers, bricklayers, lathers, structural iron workers, etc., this move seems to contemplate a fight to a finish.

It is expected that the Material Producers Association will cease all operation and delivery, thus making the tie-up complete. The immediate effect of the lock-out has been to throw over 100,000 men in the various trades out of work, and to stop work on at least $50,000,000 worth of work in progress, including the Michigan Boulevard improvement, the new Union Station, and all private work.

At the same time, 10,000 men are locked out at one of the International Harvester Co.'s plants, 7,000 are on strike at Crane Co.'s plant, and 16,000 traction employees, both surface and elevated, have just voted, almost unanimously, to strike at once unless granted a flat increase of 77%.

OFFICIAL PROPOSALS

OFFICIAL PROPOSALS

Bids: Aug. 12.

Canal Improvements

STATE OF NEW YORK
OFFICE OF SUPERINTENDENT
OF PUBLIC WORKS.
Albany, N. Y.

Sealed proposals will be received by the undersigned at his office in the Capitol at Albany, N. Y., until 12 o'clock noon of Tuesday, August 12, 1919, at which place and hour they will be publicly opened and read, for improving the New York State canals pursuant to the provisions of Chapter 147 of the Laws of 1903, and of the acts amendatory thereof and supplementary thereto, and Chapter 570 of the Laws of 1915, as follows:

—1—

CONTRACT No. 144-A.
Erie Canal—Section 9.

For completing the construction of two concrete bridges over Red Creek in Genesee Valley Park, Rochester.

Sheets 1 to 10, inclusive.

—2—

CONTRACT No. 194.
Champlain Canal—Section 2.

For completing the excavation of the canal between Crocker's Reef and Fort Edward.

Sheets 1 to 7, inclusive.

—3—

CONTRACT No. 198
Erie Canal—Section 8

For constructing the substructure, superstructure and approaches of a highway bridge across the barge canal below Lock 28-A, Lyons, N. Y.

Sheets 1 to 6, inclusive.

Plans may be seen and detailed specifications, engineer's estimates of quantities, proposal blanks, form of contract and bond required and other information for proposers may be had at the office of the Superintendent of Public Works at Albany, N. Y.; at the office of the Assistant Superintendent of Public Works for the Middle Division at Syracuse, N. Y.; at the office of the Assistant Superintendent of Public Works for the Western Division, at Rochester, N. Y., and at the canal office, Spaulding's Exchange, Buffalo, N. Y.

Copies of detailed plans or drawings may be obtained from the State Engineer and Surveyor at Albany, N. Y., upon payment to him of the cost of producing them.

Monthly estimates will be paid of ninety per centum (90 per cent.) of the work done at the contract price. Every proposal for said work must be accompanied by a money deposit in the form of a draft or certified check upon some good banking institution in the city of Albany or New York, issued by a national or state bank in good credit within the state and payable at sight to the Superintendent of Public Works for five percentum (5 per cent.) of the amount of the proposal.

The person whose proposal shall be accepted will be required to execute a contract and furnish bonds within ten days from the date of notice of award delivered to him or them in person or mailed to the address given in the proposal.

Upon execution of the contract and approval of bonds, the certified check or draft will be returned to the proposer unless the same shall have been presented for collection prior to such time, in which case the amount of the deposit will be refunded by the Superintendent of Public Works.

The deposits of bidders other than the one to whom the award of contract shall be made will be returned immediately after the award has been made.

The bond required for the faithful performance of each contract shall be in such sum as shall be fixed by the Superintendent of Public Works, which sum shall not be less than twenty per centum (20 per cent) of the estimated cost of the work according to the contract price, and an additional bond, known as the labor bond, in the sum of ten per centum (10 per cent) of the amount of the estimated cost of the work, according to the contract price, will be required as security that the contractor will pay in full at least once in each month all laborers employed by him upon the work specified to be done in the contract.

In the event that more than one surety company is offered as surety on said bonds, co-insurance only will be accepted.

Each proposal must be addressed to the Superintendent of Public Works, Albany, N. Y., and must be endorsed on the envelope with the name of the construction for which the proposal is made.

Award, if made, will be made to the person or persons whose proposal shall be lowest in cost to the state for doing the work and which shall comply with all provisions required to render it formal. Before any award shall be made the lowest bidder will be required to satisfy the Superintendent of Public Works of his ability to provide suitable equipment and materials for the proper performance of the work.

The right is reserved to reject all proposals and readvertise and award the contract in the reular manner if, in the judgment of the undersigned the interests of the state will be enhanced thereby.

EDWARD S. WALSH,
Superintendent of Public Works.

pecial price for Official Proposals, $3.60 an inch — Copy for Official Proposals can be received until Wednesday, 10 a.m., for issue out the next morning.

The publication of an advertisement on this page is an official notice that bids are wanted from other than local bidders.

It is also a guarantee that maximum competition is invited because Engineering News-Record is the *one* nationally recognized medium for Proposal advertising. Its Searchlight Section is read each week by nearly every worth-while contractor in this country who bids on public work outside his own city.

OFFICIAL PROPOSALS

Bids: July 31.

Construction of Reservoir

THE MORRIS RUN COAL MINING COMPANY
Wilkes-Barre, Pa.

Sealed proposals will be received by the undersigned at their office in Wilkes-Barre, Pa., until twelve o'clock noon of July 31 at which place and hour they will be publicly opened and read, for the construction of a reservoir on Morris Run, Hamilton Township, Tioga County, for The Morris Run Coal Mining Company.

The construction will involve about 6200 cu.yds. of embankment and about 300 cu.yds. of concrete, mass and reinforced.

Proposals must cover the entire construction, and the necessary labor and materials for same.

The right is reserved to reject any or all proposals and to readvertise and award the contract in the regular manner.

Plans and specifications may be obtained at the office of The Morris Run Coal Mining Company, Miners Bank Bldg., Wilkes-Barre, Pa., on payment of $2.00, which will be refunded upon return of plans and specifications in good condition.

Every proposal must be accompanied by a money deposit in the form of a draft or certified check, payable to The Morris Run Coal Mining Company, for $500.00.

The successful bidder will be required to execute a contract and furnish bonds within ten days from the date of notice of award delivered to him or them, or mailed to the address given in the proposal.

Upon execution of the contract and approval of bonds, the draft or certified check will be returned to the bidder.

The deposits of bidders other than the one to whom the award of contract shall be made will be returned immediately after the award has been made.

The amount of security required for faithful performance of the work will be 40 per cent of the amount of the estimated cost of the work according to the contract prices.

THE MORRIS RUN COAL MINING CO.

Bids: Aug. 6.

Flood Protection and Drainage Work

Kenton, Ohio.

Sealed proposals will be received at the office of The Upper Scioto Drainage and Conservancy District, until 12 o'clock, noon, Aug. 6, 1919, for the construction of a system of drainage and flood control involving approximately the following principal quantities:

Earth excavation	2,036,400	cu.yd.
Rock excavation	6,290	cu.yd.
Leveling waste bank..	13,713	cu.yd.
Removing waste bank.	12,736	cu.yd.

Drawings, profiles, cross sections, specifications, proposal blanks, and other information may be obtained on application to the Morgan Engineering Company, Dayton, Ohio, or the Secretary, The Upper Scioto Drainage and Conservancy District, Kenton, Ohio, at whose office drawings and other data may be inspected.

S. K. YOUNG,
Secretary.